

**SITE ASSESSMENT REPORT
FOR
SPRINGFIELD IRON SITE
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS**

Prepared for:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Emergency Response Branch
Region V
77 West Jackson Boulevard
Chicago, IL 60604-3507

Prepared by:

WESTON SOLUTIONS, INC.
20 North Wacker Drive, Suite 1210
Chicago, IL 60606

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WESTON START Project Manager:	Lisa Graczyk
Telephone No.:	(312) 424-3339
U.S. EPA On-Scene Coordinator:	Fred Micke

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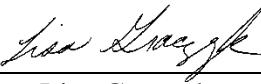
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Emergency Response Branch
Region 5
77 West Jackson Boulevard
Chicago, IL 60604-3507

Prepared by:

WESTON SOLUTIONS, INC.
20 North Wacker Drive, Suite 1210
Chicago, IL 60606

Prepared by: 

Date: 10/1/2012
David Sena
WESTON START Member

Reviewed and
Approved by: 

Date: 10/1/2012
Lisa Graczyk
WESTON START Project Manager

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LIST OF ABBREVIATIONS AND ACRONYMS

µg/kg	Microgram per kilogram
bgs	Below ground surface
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
FIELDS	Field Environmental Decision Support Team
IEPA	Illinois Environmental Protection Agency
LEL	Lower explosive limit
mg/kg	Milligram per kilogram
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
OSC	On-Scene Coordinator
PID	Photoionization detector
RAL	Removal Action Level
RCRA	Resource Conservation and Recovery Act
START	Superfund Technical Assessment and Response Team
SVOC	Semivolatile organic compound
TACO	Tiered Approach to Corrective Action
TAL	Target Analyte List
TCL	Target Compound List
U.S. EPA	United States Environmental Protection Agency
VOC	Volatile organic compound
WESTON	Weston Solutions, Inc.

1. INTRODUCTION

The United States Environmental Protection Agency (U.S. EPA) tasked the Weston Solutions, Inc. (WESTON[®]), Superfund Technical Assessment and Response Team (START) to assist the U.S. EPA in performing a site assessment at the Springfield Iron Site in Springfield, Sangamon County, Illinois (the Site; **Figure 1**). Specifically, under Technical Direction Document No. S05-0001-1207-006, U.S. EPA requested that WESTON START document current Site conditions; collect subsurface soil and coal tar samples; obtain photographic documentation; and evaluate the potential for imminent and substantial threats to the public health or welfare of the United States or the environment posed by Site-related conditions. On August 28 and 29, 2012, WESTON START conducted the site assessment under the direction of the U.S. EPA On-Scene Coordinator (OSC), Mr. Fred Micke.

This site assessment report is organized into the following sections:

- **Introduction** – Provides a brief description of the scope of site assessment activities
- **Site Background** – Details the Site description and its known history
- **Site Assessment Activities** – Discusses methods and procedures used during the site assessment
- **Analytical Results** – Discusses analytical results for samples collected during the site assessment
- **Threats to Human Health and the Environment** – Identifies Site conditions that may warrant a removal action under the National Oil and Hazardous Substances Pollution Contingency Plan (NCP)
- **Summary and Conclusions** – Summarizes the site assessment and presents conclusions based on site assessment findings

2. SITE BACKGROUND

This section discusses the Site description and history.

2.1 SITE DESCRIPTION

The Site is located at approximately 1900 Factory Street in Springfield, Sangamon County, Illinois (**Figure 1**). The Site's geographical coordinates are 39°49'36.68" North latitude and

89°38'13.01" West longitude. The Springfield Iron Company originally occupied approximately 50 acres on the north side of Springfield, east of Factory Street and south of Griffiths Avenue. The Springfield Iron Company was north of what is now Ridgely Avenue and mostly west of what is now 14th Street. A portion of the Springfield Iron Company extended east to the present location of the Chicago and Illinois Railroad.

The Site currently is occupied by a mix of commercial and residential properties that include warehouse space, wholesale merchandise storage, a plumbing service company, a taxi company, an electrical substation, a large city water storage tank, and a city backup electrical generator (**Figure 2**). Residential properties occupy the southernmost part of the Site property and border the Site to the east, north, and south. The Chicago and Illinois Railroad is located west of Site. A mix of industrial, commercial, and residential properties exists west of the Chicago and Illinois Railroad.

2.2 SITE HISTORY

The Springfield Iron Company operated from 1872 until 1905, when the plant structures were demolished and the Site was leveled. The plant primarily manufactured iron and steel for the railroad industry. A puddle mill was established at the Site in June 1872, and the first iron rail was completed in September 1872. Later operations expanded to include production of both iron and steel rails, bar iron, fish plates, and track bolts. The iron and steel manufacturing processes used four "gas houses" that produced gas using coal, which was then either used for production or sold to the city to fuel street lights.

On March 11, 2010, the Illinois Environmental Protection Agency (IEPA) Office of Site Evaluation conducted a pre-Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) screening assessment at the Site. The assessment was prompted by the observation of coal tar seeping onto a public sidewalk and city right-of-way in the northwest region of the Site. The sidewalk links a nearby high school, baseball/softball fields, a community park, and several residential areas. The screening assessment focused on four coal gas houses and on a potential coal-tar disposal area.

In October 2010, as part of the pre-CERCLIS screening assessment, IEPA mobilized a Geoprobe to drill 20 borings at the Site in the four gas house areas and the potential coal-tar disposal area. The borings depths ranged from 4 to 12 feet below ground surface (bgs). **Appendix A** provides a copy of the IEPA data tables from the soil sampling conducted in October 2010. According to the pre-CERCLIS screening assessment report, the following compounds exceeded U.S. EPA Removal Action Levels (RAL):

- 2,4-Dimethylphenol at sampling location X107 at 3,800,000 micrograms per kilograms ($\mu\text{g}/\text{kg}$)
- 3- and 4-Methylphenol at sampling location X107 at 6,400,000 $\mu\text{g}/\text{kg}$
- Benzo(a)anthracene at sampling locations X106 and X108 at 110,000 and 220,000 $\mu\text{g}/\text{kg}$, respectively
- Benzo(a)pyrene at sampling location X108 at 130,000 $\mu\text{g}/\text{kg}$
- Benzene at sampling locations X107 and X108 at 18,000 and 45,000 $\mu\text{g}/\text{kg}$, respectively

On October 10, 2011, the City of Springfield conducted an initial Site investigation to supplement the IEPA pre-CERCLIS screening assessment and to delineate the areal extent and depth of any coal-tar contamination at the Site. Nine borings were installed. Temporary piezometers were installed in four of the borings to determine groundwater elevations.

On February 9, 2012, the U.S. EPA received a request from the IEPA to conduct a time-critical removal assessment at the Site to document the need for U.S. EPA involvement to address imminent and substantial threats to the public health or welfare of the United States or the environment posed by Site-related conditions.

3. SITE ASSESSMENT ACTIVITIES

This section discusses the site reconnaissance and observations and sampling activities conducted during the site assessment. **Appendix B** provides photographic documentation of Site conditions and site assessment activities.

3.1 SITE RECONNAISSANCE AND OBSERVATIONS

On August 28, 2012, U.S. EPA OSC Fred Micke and WESTON START members Keith Hughes and David Sena mobilized to the Site. The area of the Site investigated included those areas that contained coal tar seeps on the ground surface and areas containing levels of contaminants at concentrations above U.S. EPA RALs from the IEPA sampling event in October 2010. WESTON START initiated the site assessment by conducting a preliminary Site reconnaissance and air monitoring using a MultiRAE photoionization detector (PID) and Ludlum MicroR radiation survey meter. Initial air monitoring results did not exceed background levels for volatile organic compounds (VOC), carbon monoxide, hydrogen sulfide, lower explosive limit (LEL), or radiation. Coal tar was observed seeping onto the ground surface, including sidewalks, in two areas in the northeast region of the Site west of Tony's Electric Services, Inc. No perimeter fencing was present between the coal-tar seeps and the sidewalk bordering the Site.

3.2 SAMPLING ACTIVITIES

On August 28 and 29, 2012, the U.S. EPA and WESTON START conducted soil boring and sampling activities. The U.S. EPA Field Environmental Decision Support Team (FIELDS) used a direct-push, Geoprobe track-mounted rig to advance 10 soil borings, SI-SB01 through SI-SB10. **Figure 3** shows the boring locations. All borings were advanced to an estimated depth of 2 feet below the impacted area based on soil core observations or to refusal.

Soil was collected at 3-foot intervals using dual-core samplers. Soil in each 3-foot-long core was inspected, and observations were recorded on soil boring logs (**Appendix C**). WESTON START described each soil sample interval in accordance with American Society for Testing and Materials Method D2488, and the lithology for each boring was classified using the Unified Soil Classification System. The soil boring logs provide a detailed record of the lithology and potential contaminant characteristics of each boring, including any fill materials, odors, discoloration, or staining observed suggesting potential contamination. Each 2-foot-depth interval was field screened for VOCs using a MultiRAE PID. The boring logs in **Appendix C** also list the field screening PID results.

Table 1 presents a sampling summary, including the field sample identification numbers; sampling dates, matrices, locations, and depths; and analytical parameters. Ten investigative soil samples and one duplicate sample were collected from the 10 soil boring locations as well as 2 coal-tar samples. Coal-tar sample SI-TAR01-082812 was collected from coal tar seeping onto grass at the ground surface in the northeast region of the Site, and coal-tar sample SI-TAR02-082912 was collected from coal tar seeping onto a sidewalk at ground level in the northeast region of the Site. **Figure 3** shows the soil and coal-tar sampling locations.

Soil and coal tar samples were submitted under chain of custody to STAT Analysis Corporation in Chicago, Illinois, for analyses of the following parameters: Target Compound List (TCL) VOCs and semivolatile organic compounds (SVOC) and Target Analyte List (TAL) metals including cyanide. One field duplicate soil sample was collected for quality assurance/quality control purposes.

In accordance with the approved site-specific health and safety plan, all sampling activities were conducted in Level D personal protective equipment. Fresh sampling gloves were donned before sampling activities began at each new location and before collection of each sample to avoid cross-contamination. Non-disposable equipment that could cross-contaminate samples (such as the Geoprobe cutting shoe) was decontaminated between each sampling location using an Alconox wash and potable water rinse.

4. ANALYTICAL RESULTS

The TCL VOC and SVOC and TAL metals results for the subsurface soil and coal-tar samples were compared to U.S. EPA carcinogenic and non-carcinogenic RALs for residential soil. RALs are chemical-specific concentrations of individual contaminants that may be used to support U.S. EPA's decision to undertake a removal action at a Site. **Table 2** provides the sample analytical results. **Appendix D** provides the laboratory analytical and data validation report for all samples collected. The sample analytical results are summarized below.

- **TCL VOCs:** VOCs were not detected at concentrations exceeding the carcinogenic or non-carcinogenic U.S. EPA RALs for residential soil.
- **TCL SVOCs:** The following SVOCs were detected at concentrations exceeding the U.S.

EPA RALs:

- Coal-tar sample S1-TAR01-082812: 2-methylnaphthalene at 3,400 milligram per kilogram (mg/kg) (exceeding non-carcinogenic RAL of 3,290 mg/kg)
- Soil samples SI-SB04(4-6)-082812, SI-SB05(4-6)-082812, and SI-SB07(2-4)-082912, and coal-tar samples S1-TAR01-082812 and S1-TAR02-082912: benzo(a)anthracene at 110 to 1,200 mg/kg (exceeding carcinogenic RAL of 14.8 mg/kg)
- Soil samples SI-SB04(4-6)-082812, SI-SB05(4-6)-082812, and SI-SB07(2-4)-082912, and coal-tar samples S1-TAR01-082812 and S1-TAR02-082912: benzo(a)pyrene at 67 to 720 mg/kg (exceeding carcinogenic RAL of 1.48 mg/kg)
- Soil samples SI-SB04(4-6)-082812, SI-SB05(4-6)-082812, and SI-SB07(2-4)-082912, and coal-tar samples S1-TAR01-082812 and S1-TAR02-082912: benzo(b)fluoranthene at 42 to 500 mg/kg (exceeding carcinogenic RAL of 14.8 mg/kg)
- Soil samples SI-SB04(4-6)-082812 and SI-SB05(4-6)-082812, and coal-tar samples S1-TAR01-082812 and S1-TAR02-082912: benzo(k)fluoranthene at 210 to 610 mg/kg (exceeding carcinogenic RAL of 148 mg/kg)
- Soil samples SI-SB04(4-6)-082812, SI-SB05(4-6)-082812, and SI-SB07(2-4)-082912, and coal-tar samples S1-TAR01-082812 and S1-TAR02-082912: dibenz(a,h)anthracene at 17 to 220 mg/kg (exceeding carcinogenic RAL of 1.48 mg/kg)
- Coal-tar sample S1-TAR01-082812: dibenzofuran at 1,600 mg/kg (exceeding non-carcinogenic RAL of 823 mg/kg)
- Soil samples SI-SB04(4-6)-082812, SI-SB05(4-6)-082812, and SI-SB07(2-4)-082912, and coal-tar samples S1-TAR01-082812 and S1-TAR02-082912: indeno(1,2,3-cd)pyrene at 24 to 330 mg/kg (exceeding carcinogenic RAL of 14.8 mg/kg)
- Soil samples SI-SB04(4-6)-082812 and SI-SB05(4-6)-082812, and coal-tar samples S1-TAR01-082812 and S1-TAR02-082912: naphthalene at 590 to 5,000 mg/kg (exceeding both carcinogenic and non-carcinogenic RALs of 357 and 450 mg/kg, respectively)
- **TAL Metals:** The following metals were detected at concentrations exceeding the U.S. EPA RALs:
 - Soil samples SI-SB05(4-6)-082812 and SI-SB07(2-4)-082912: lead at 850 and 740 mg/kg (exceeding non-carcinogenic RAL of 400 mg/kg)
 - Soil samples SI-SB02(4-6)-082812 and SI-SB04(4-6)-082812: vanadium at 720 and 69 mg/kg (exceeding non-carcinogenic RAL of 57.6 mg/kg)

5. THREATS TO HUMAN HEALTH AND THE ENVIRONMENT

Factors to be considered when determining the appropriateness of a potential removal action at a site are delineated in the NCP at Title 40 of the *Code of Federal Regulations*, 300.415(b)(2). The factors applicable to the Site are summarized below.

- **Actual or potential exposure of nearby human populations, animals, or the food chain to hazardous substances or pollutants or contaminants**

The Site is bordered by residential areas to the east and north. The Site is less than 0.5 mile from several schools, including Ridgely Elementary School and St. Aloysius Catholic School. During the site assessment, the on-site coal-tar seep areas were not fenced or secured. One coal-tar seep was onto a public sidewalk, and seeps have been reported on public streets. Nearby human populations and animals could easily contact coal tar seeping out of the ground through public walkways or by trespassing.

Based on site assessment analytical results, the coal tar contains the following SVOCs at concentrations exceeding U.S. EPA RALs: 2-methylnaphthalene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene, dibenzofuran, indeno(1,2,3-cd)pyrene, and naphthalene. Naphthalene was detected at the highest concentration of 5,000 mg/kg in one coal-tar sample. Exposure to large amounts of naphthalene may damage or destroy red blood cells, a condition known as hemolytic anemia. Symptoms of hemolytic anemia include fatigue, lack of appetite, restlessness, and pale skin. Exposure to large amounts of naphthalene also may cause nausea, vomiting, diarrhea, blood in the urine, and yellow skin.

- **High levels of hazardous substances or pollutants or contaminants in soils largely at or near the surface that may migrate**

During the site assessment, coal-tar seeps at the ground surface were sampled and contained the following SVOCs at concentrations exceeding U.S. EPA RALs: 2-methylnaphthalene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene, dibenzofuran, indeno(1,2,3-cd)pyrene, and naphthalene. Site assessment soil samples collected from 2 to 6 feet bgs contained the same SVOCs exceeding the U.S. EPA RALs. The fact that one of the coal-tar samples contained significantly higher concentrations than the soil samples seem to indicate that contaminants from coal tar are leaching into the soil and contaminating soil with SVOCs at concentrations exceeding the U.S. EPA RALs.

- **Weather conditions that may cause hazardous substances or pollutants or contaminants to migrate or be released**

As stated above, the fact that one of the coal-tar samples contained significantly higher concentrations than the soil samples may indicate that contaminants from coal tar are leaching into the soil and contaminating soil with SVOCs at concentrations exceeding the

U.S. EPA RALs. Heavy rains could cause contaminants in coal tar to migrate vertically and horizontally into soil. Although surface soil was not sampled during this site assessment, contaminants in surface soil could migrate during heavy winds.

- The availability of other appropriate federal or state response mechanisms to respond to the release**

IEPA requested U.S. EPA assistance to perform a time-critical removal assessment, which documents the need for U.S. EPA involvement to address imminent and substantial threats to the public health or welfare of the United States or the environment posed by Site-related conditions.

6. SUMMARY AND CONCLUSIONS

During the site assessment, 11 subsurface soil and two coal-tar samples were collected from the Site. Analytical results indicate that samples collected from 2 to 6 feet bgs from four soil borings exceeded the U.S. EPA RALs for the following SVOCs and metals: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, naphthalene, lead, and vanadium. The coal-tar samples contained the same SVOCs as well as 2-methylnaphthalene and dibenzofuran at concentrations exceeding the U.S. EPA RALs. The fact that one of the coal-tar samples contained significantly higher concentrations than the soil samples may indicate that contaminants from coal tar are leaching into the soil and contaminating soil with SVOCs at concentrations exceeding the U.S. EPA RALs. Naphthalene was detected at the highest concentration of 5,000 mg/kg in one coal-tar sample. Below is a summary of the RAL exceedances (bolded and shaded results).

Chemical Name	Carcinogenic RAL	Non-Carcinogenic RAL	SI-SB02 (4-6)-082812	SI-SB04 (4-6)-082812	SI-SB05 (4-6)-082812	SI-SB07 (2-4)-082912	SI-TAR01-082812	SI-TAR02-082912
TAL Metals (m/kg)								
Lead	---	400	28	86	850	740	19	17
Vanadium	---	57.6	720	69	28	44	1.9 U	1.6
TCL SVOCs (mg/kg)								
2-Methylnaphthalene	---	3290	0.19 U	580	430	200	3400	790
Benz(a)anthracene	14.8	---	0.12	500	450	110	1200	470
Benzo(a)pyrene	1.48	---	0.08	360	320	67	720	280
Benzo(b)fluoranthene	14.8	---	0.06	240	250	42	500	220
Benzo(k)fluoranthene	148	---	0.083	290	240	60	610	210

Chemical Name	Carcinogenic RAL	Non-Carcinogenic RAL	SI-SB02 (4-6)-082812	SI-SB04 (4-6)-082812	SI-SB05 (4-6)-082812	SI-SB07 (2-4)-082912	SI-TAR01-082812	SI-TAR02-082912
Dibenz(a,h)anthracene	1.48	---	0.037 U	86	80	17	220	70
Dibenzofuran	---	823	0.19 U	390	290	110	1600	450
Indeno(1,2,3-cd)pyrene	14.8	---	0.037 U	130	120	24	330	110
Naphthalene	357	450	0.06	800	590	300	5000	1100

Notes:

Shaded and bolded results exceed one or more RALS.

U = Compound was not detected above the stated reporting limit

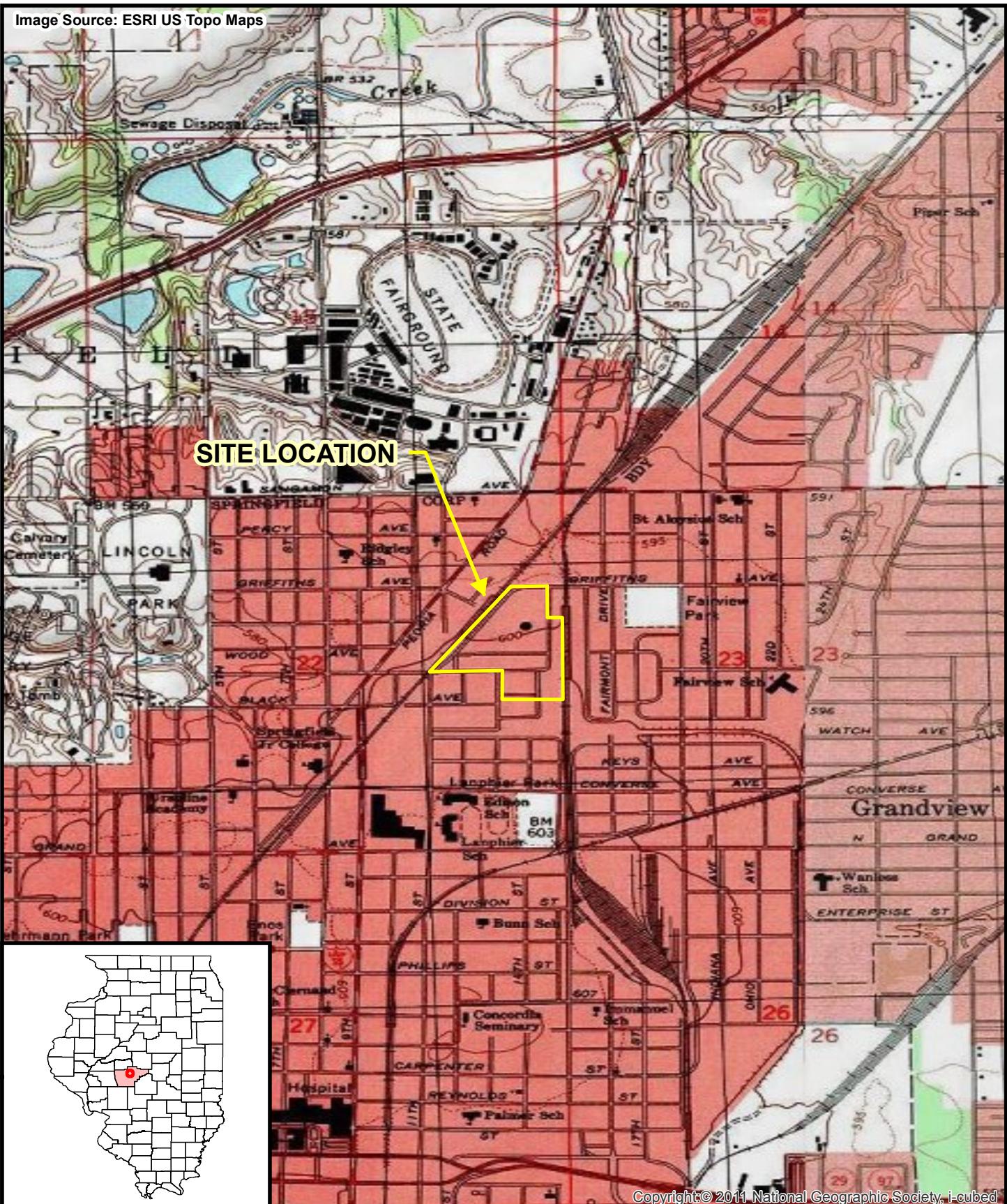
Based on site assessment results, the Site poses an imminent and substantial threat to the public health or welfare of the United States or the environment. Hazards identified at the Site include the following:

- Coal tar in soil migrating to the ground surface, including public sidewalks
- Coal tar seeps at the ground surface and in soil contaminated with SVOCs at concentrations exceeding U.S. EPA RALS
- Soil at 2 to 6 feet bgs contaminated with metals and SVOCs at concentrations exceeding U.S. EPA RALS

Contaminants and conditions at the Site meet criteria established in the NCP for a removal action.

FIGURES

Image Source: ESRI US Topo Maps



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Legend

■ Site Boundary



0 2,000 Feet



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DCN: 1899-2A-BBFM



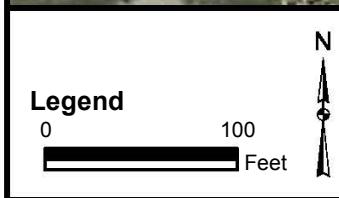
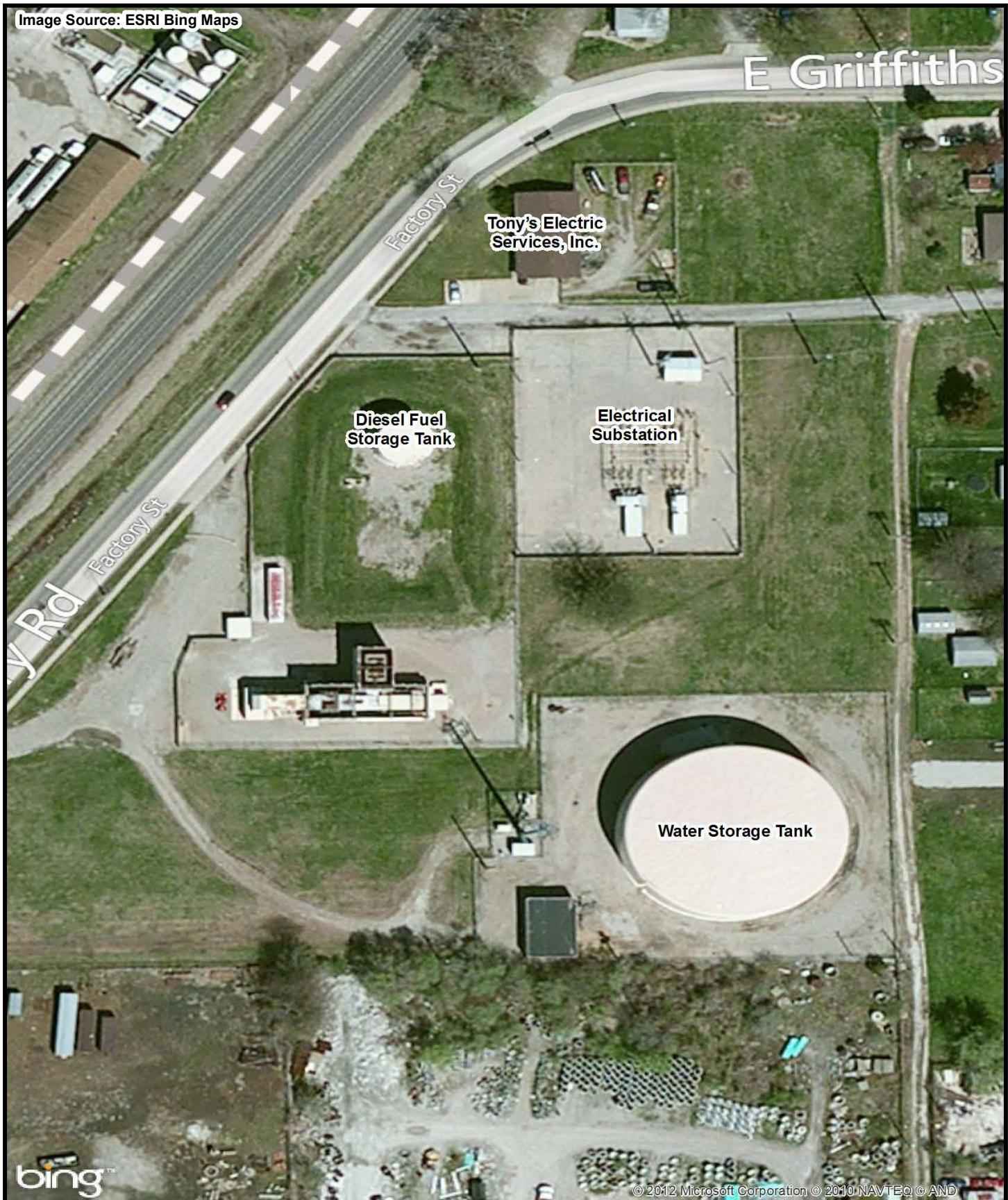
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WESTON
SOLUTIONS, INC

20 N. Wacker Drive
Suite 1210
Chicago, Illinois 60606

Figure 1
Site Location Map
Springfield Iron
Springfield, Sangamon County, Illinois

Image Source: ESRI Bing Maps

E Griffiths



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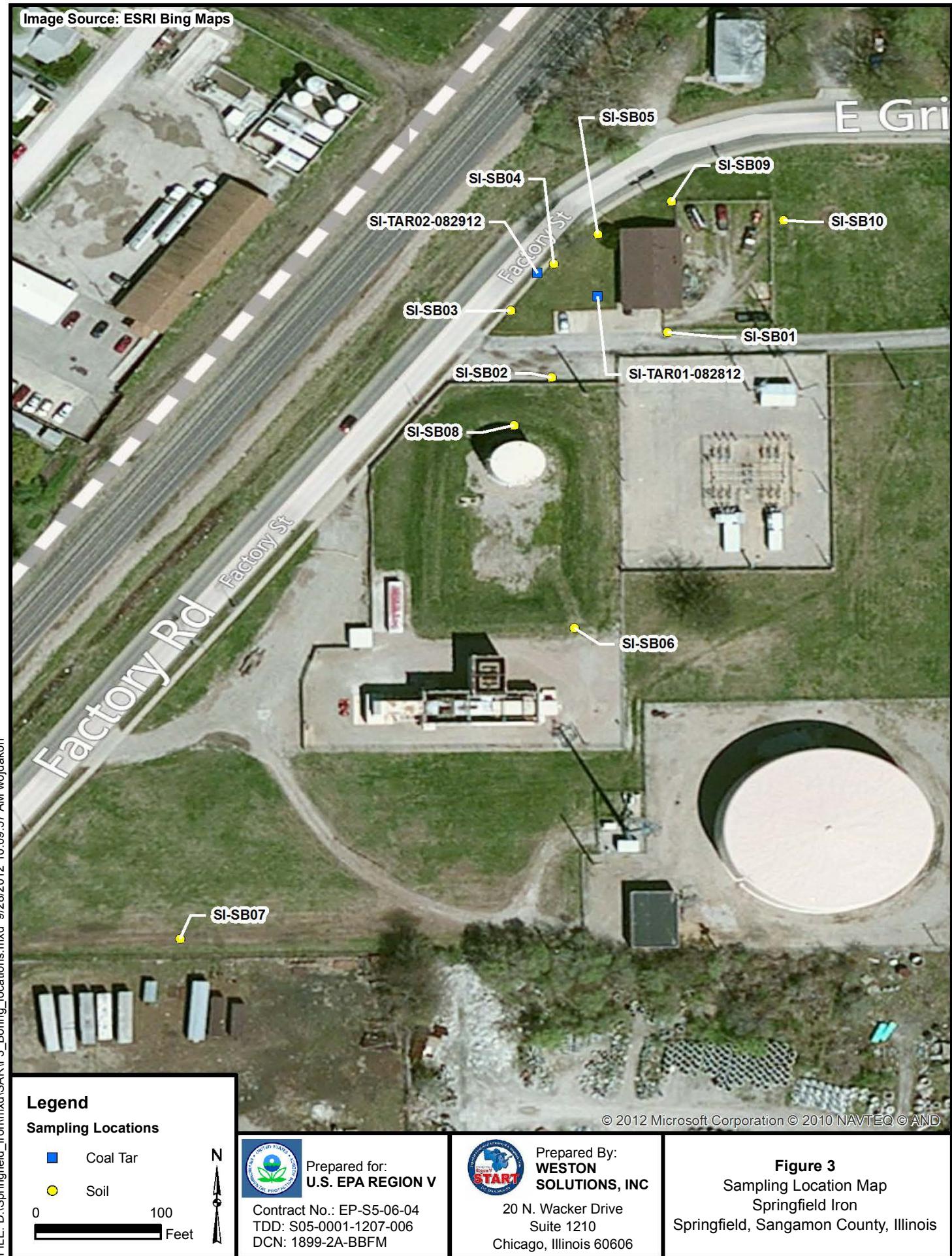
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Figure 2
Site Layout Map
Springfield Iron
Springfield, Sangamon County, Illinois

Image Source: ESRI Bing Maps

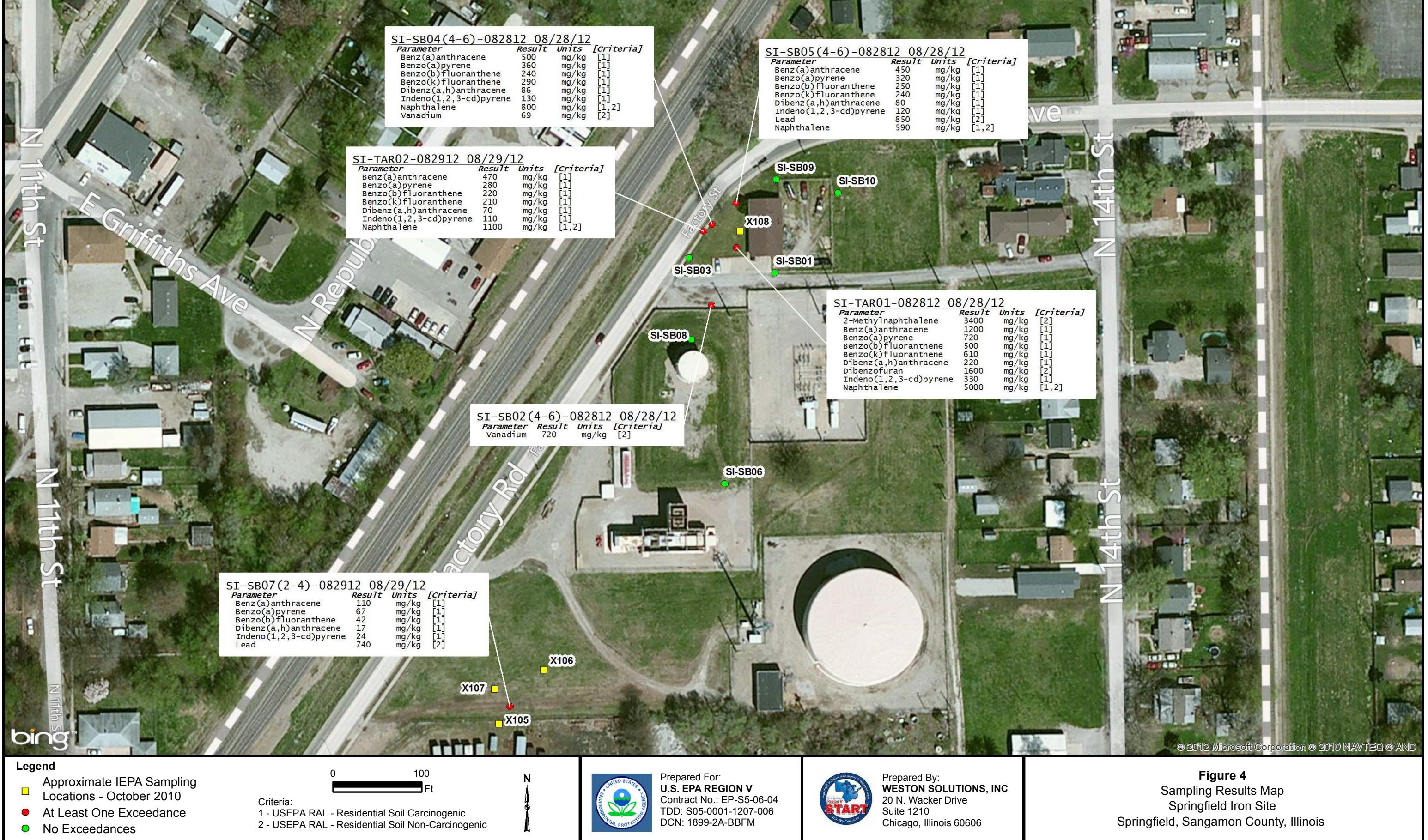


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Figure 3
Sampling Location Map
Springfield Iron
Springfield, Sangamon County, Illinois



TABLES

Table 1
Sampling Summary Table
Springfield Iron
Springfield, Sangamon County, Illinois

Field Sample ID No.	Sampling Date	Matrix	Location	Approximate Sampling Depth (feet bgs)	Analytical Parameters
SI-SB01(1-3)-082812	8/28/2012	Subsurface soil	SI-SB01	1-3	TCL VOCs and SVOCs and TAL Metals
SI-SB02(4-6)-082812	8/28/2012	Subsurface soil	SI-SB02	4-6	TCL VOCs and SVOCs and TAL Metals
SI-SB03(8-10)-082812	8/28/2012	Subsurface soil	SI-SB03	8-10	TCL VOCs and SVOCs and TAL Metals
SI-SB04(4-6)-082812	8/28/2012	Subsurface soil	SI-SB04	4-6	TCL VOCs and SVOCs and TAL Metals
SI-SB05(4-6)-082812	8/28/2012	Subsurface soil	SI-SB05	4-6	TCL VOCs and SVOCs and TAL Metals
SI-SB06(3-5)-082912	8/29/2012	Subsurface soil	SI-SB06	3-5	TCL VOCs and SVOCs and TAL Metals
SI-SB07(2-4)-082912	8/29/2012	Subsurface soil	SI-SB07	2-4	TCL VOCs and SVOCs and TAL Metals
SI-SB08(4-6)-082920	8/29/2012	Subsurface soil	SI-SB08	4-6	TCL VOCs and SVOCs and TAL Metals
SI-SB09(4-6)-082812	8/28/2012	Subsurface soil	SI-SB09	4-6	TCL VOCs and SVOCs and TAL Metals
SI-SB09(4-6)-082812D	8/28/2012	Subsurface soil	SI-SB09	4-6	TCL VOCs and SVOCs and TAL Metals
SI-SB10(8-10)-082812	8/28/2012	Subsurface soil	SI-SB10	8-10	TCL VOCs and SVOCs and TAL Metals
SI-TAR01-082812	8/28/2012	Coal tar	Seep onto grass	Surface	TCL VOCs and SVOCs and TAL Metals
SI-TAR02-082912	8/29/2012	Coal tar	Seep onto sidewalk	Surface	TCL VOCs and SVOCs and TAL Metals

Notes:

bgs = Below ground surface

ID = Identification

SVOC = Semivolatile organic compound

TAL = Target Analyte List

TCL = Target Compound List

VOC = Volatile organic compound

Table 2
Analytical Results Summary Table
Springfield Iron
Springfield, Sangamon County, Illinois

Chemical Name	Unit	Location ID	SI-SB01	SI-SB02	SI-SB03	SI-SB04	SI-SB05	SI-SB06	SI-SB07	SI-SB08	SI-SB09	SI-SB09	SI-SB10	SI-TAR01	SI-TAR02	
		Field Sample ID	SI-SB01(1-3)- 082812	SI-SB02(4-6)- 082812	SI-SB03(8-10)- 082812	SI-SB04(4-6)- 082812	SI-SB05(4-6)- 082812	SI-SB06(3-5)- 082912	SI-SB07(2-4)- 082912	SI-SB08(4-6)- 082912	SI-SB09(4-6)- 082812	SI-SB09(4-6)- 082812D	SI-SB10 (8-10)- 082812	SI-TAR01- 082812	SI-TAR02- 082912	
		Sampling Date	8/28/2012	8/28/2012	8/28/2012	8/28/2012	8/28/2012	8/29/2012	8/29/2012	8/29/2012	8/29/2012	8/28/2012	8/28/2012	8/28/2012	8/29/2012	
		RAL Carc ¹	RAL Non-Carc ²	Result												
TCL VOCs																
1,1,1-Trichloroethane	mg/kg	---	27300	7200	0.0056 U	0.0052 U	1.6 U	1.3 U	0.0069 U	0.0079 U	0.0053 U	0.0046 U	0.005 U	0.0051 U	3.1 U	2.3 U
1,1,2,2-Tetrachloroethane	mg/kg	56.2	3290	0.0061 U	0.0056 U	0.0052 U	1.6 U	1.3 U	0.0069 U	0.0079 U	0.0053 U	0.0046 U	0.005 U	0.0051 U	3.1 U	2.3 U
1,1,2-Trichloroethane	mg/kg	107	3290	0.0061 U	0.0056 U	0.0052 U	1.6 U	1.3 U	0.0069 U	0.0079 U	0.0053 U	0.0046 U	0.005 U	0.0051 U	3.1 U	2.3 U
1,1-Dichloroethane	mg/kg	331	165000	0.0061 U	0.0056 U	0.0052 U	1.6 U	1.3 U	0.0069 U	0.0079 U	0.0053 U	0.0046 U	0.005 U	0.0051 U	3.1 U	2.3 U
1,1-Dichloroethene	mg/kg	---	---	0.0061 U	0.0056 U	0.0052 U	1.6 U	1.3 U	0.0069 U	0.0079 U	0.0053 U	0.0046 U	0.005 U	0.0051 U	3.1 U	2.3 U
1,2-Dichloroethane	mg/kg	43.2	11400	0.0061 U	0.0056 U	0.0052 U	1.6 U	1.3 U	0.0069 U	0.0079 U	0.0053 U	0.0046 U	0.005 U	0.0051 U	3.1 U	2.3 U
1,2-Dichloropropane	mg/kg	89.5	48.4	0.0061 U	0.0056 U	0.0052 U	1.6 U	1.3 U	0.0069 U	0.0079 U	0.0053 U	0.0046 U	0.005 U	0.0051 U	3.1 U	2.3 U
2-Butanone	mg/kg	---	145000	0.091 U	0.084 U	0.078 U	23 U	20 U	0.1 U	0.12 U	0.08 U	0.069 U	0.074 U	0.076 U	47 U	34 U
2-Hexanone	mg/kg	---	1010	0.024 U	0.022 U	0.021 U	6.3 U	5.3 U	0.028 U	0.032 U	0.021 U	0.018 U	0.02 U	0.02 U	12 U	9.1 U
4-Methyl-2-pentanone	mg/kg	---	107000	0.024 U	0.022 U	0.021 U	6.3 U	5.3 U	0.028 U	0.032 U	0.021 U	0.018 U	0.02 U	0.02 U	12 U	9.1 U
Acetone	mg/kg	---	487000	0.091 U	0.084 U	0.078 U	23 U	20 U	0.1 U	0.12 U	0.08 U	0.069 U	0.074 U	0.076 U	47 U	34 U
Benzene	mg/kg	108	322	0.0061 U	0.0056 U	0.0052 U	30	49	0.0069 U	0.0079 U	0.0053 U	0.0046 U	0.005 U	0.0051 U	41	33
Bromodichloromethane	mg/kg	27.3	16500	0.0061 U	0.0056 U	0.0052 U	1.6 U	1.3 U	0.0069 U	0.0079 U	0.0053 U	0.0046 U	0.005 U	0.0051 U	3.1 U	2.3 U
Bromoform	mg/kg	6160	12500	0.0061 U	0.0056 U	0.0052 U	1.6 U	1.3 U	0.0069 U	0.0079 U	0.0053 U	0.0046 U	0.005 U	0.0051 U	3.1 U	2.3 U
Bromomethane	mg/kg	---	23.1	0.012 U	0.011 U	0.01 U	3.1 U	2.6 U	0.014 U	0.016 U	0.011 U	0.0092 U	0.0099 U	0.01 U	6.2 U	4.6 U
Carbon disulfide	mg/kg	---	2660	0.061 U	0.056 U	0.052 U	16 U	13 U	0.069 U	0.079 U	0.053 U	0.046 U	0.05 U	0.051 U	31 U	23 U
Carbon tetrachloride	mg/kg	60.9	437	0.0061 U	0.0056 U	0.0052 U	1.6 U	1.3 U	0.0069 U	0.0079 U	0.0053 U	0.0046 U	0.005 U	0.0051 U	3.1 U	2.3 U
Chlorobenzene	mg/kg	---	1020	0.0061 U	0.0056 U	0.0052 U	1.6 U	1.3 U	0.0069 U	0.0079 U	0.0053 U	0.0046 U	0.005 U	0.0051 U	3.1 U	2.3 U
Chloroethane	mg/kg	---	43600	0.012 U	0.011 U	0.01 U	3.1 U	2.6 U	0.014 U	0.016 U	0.011 U	0.0092 U	0.0099 U	0.01 U	6.2 U	4.6 U
Chloroform	mg/kg	29.5	782	0.0061 U	0.0056 U	0.0052 U	1.6 U	1.3 U	0.0069 U	0.0079 U	0.0053 U	0.0046 U	0.005 U	0.0051 U	3.1 U	2.3 U
Chloromethane	mg/kg	---	356	0.012 U	0.011 U	0.01 U	3.1 U	2.6 U	0.014 U	0.016 U	0.011 U	0.0092 U	0.0099 U	0.01 U	6.2 U	4.6 U
cis-1,2-Dichloroethene	mg/kg	---	8230	0.0061 U	0.0056 U	0.0052 U	1.6 U	1.3 U	0.0069 U	0.0079 U	0.0053 U	0.0046 U	0.005 U	0.0051 U	3.1 U	2.3 U
cis-1,3-Dichloropropene	mg/kg	166	228	0.0024 U	0.0022 U	0.0021 U	0.63 U	0.53 U	0.0028 U	0.0032 U	0.0021 U	0.0018 U	0.002 U	0.002 U	1.2 U	0.91 U
Dibromochloromethane	mg/kg	68	12500	0.0061 U	0.0056 U	0.0052 U	1.6 U	1.3 U	0.0069 U	0.0079 U	0.0053 U	0.0046 U	0.005 U	0.0051 U	3.1 U	2.3 U
Ethylbenzene	mg/kg	539	15500	0.0061 U	0.0056 U	0.0052 U	5.3	8.2	0.0069 U	0.0079 U	0.0053 U	0.0046 U	0.005 U	0.0051 U	13	6.6
Methyl tert-butyl ether	mg/kg	4320	4950	0.0061 U	0.0056 U	0.0052 U	1.6 U	1.3 U	0.0069 U	0.0079 U	0.0053 U	0.0046 U	0.005 U	0.0051 U	3.1 U	2.3 U
Methylene chloride	mg/kg	1070	6650	0.012 U	0.011 U	0.01 U	3.1 U	2.6 U	0.014 U	0.016 U	0.011 U	0.0092 U	0.0099 U	0.01 U	6.2 U	4.6 U
Styrene	mg/kg	---	26400	0.0061 U	0.0056 U	0.0052 U	1.6 U	1.3 U	0.0069 U	0.0079 U	0.0053 U	0.0046 U	0.005 U	0.0051 U	3.1 U	2.3 U
Tetrachloroethene	mg/kg	55.5	1700	0.0061 U	0.0056 U	0.0052 U	1.6 U	1.3 U	0.0069 U	0.0079 U	0.0053 U	0.0046 U	0.005 U	0.0051 U	3.1 U	2.3 U
Toluene	mg/kg	---	34400	0.0061 U	0.0056 U	0.0052 U	42	71	0.0069 U	0.0079 U	0.0053 U	0.0046 U	0.005 U	0.011	84	50
trans-1,2-Dichloroethene	mg/kg	---	492	0.0061 U	0.0056 U	0.0052 U	1.6 U	1.3 U	0.0069 U	0.0079 U	0.0053 U	0.0046 U	0.005 U	0.0051 U	3.1 U	2.3 U
trans-1,3-Dichloropropene	mg/kg	---	---	0.0024 U	0.0022 U	0.0021 U	0.63 U	0.53 U	0.0028 U	0.0032 U	0.0021 U	0.0018 U	0.002 U	0.002 U	1.2 U	0.91 U
Trichloroethene	mg/kg</															

Table 2
Analytical Results Summary Table
Springfield Iron
Springfield, Sangamon County, Illinois

Chemical Name	Unit	Location ID	SI-SB01	SI-SB02	SI-SB03	SI-SB04	SI-SB05	SI-SB06	SI-SB07	SI-SB08	SI-SB09	SI-SB09	SI-SB10	SI-TAR01	SI-TAR02	
		Field Sample ID	SI-SB01(1-3)- 082812	SI-SB02(4-6)- 082812	SI-SB03(8-10)- 082812	SI-SB04(4-6)- 082812	SI-SB05(4-6)- 082812	SI-SB06(3-5)- 082912	SI-SB07(2-4)- 082912	SI-SB08(4-6)- 082912	SI-SB09(4-6)- 082812	SI-SB09(4-6)- 082812D	SI-SB10 (8-10)- 082812	SI-TAR01- 082812	SI-TAR02- 082912	
		Sampling Date	8/28/2012	8/28/2012	8/28/2012	8/28/2012	8/28/2012	8/29/2012	8/29/2012	8/29/2012	8/28/2012	8/28/2012	8/28/2012	8/28/2012	8/29/2012	
		RAL Carc ¹	RAL Non-Carc ²	Result												
2-Nitroaniline	mg/kg	---	6070	0.2 U	0.19 U	0.21 U	19 U	18 U	0.2 U	1.9 U	0.21 U	0.2 U	0.2 U	0.21 U	18 U	17 U
2-Nitrophenol	mg/kg	---	---	0.2 U	0.19 U	0.21 U	19 U	18 U	0.2 U	1.9 U	0.21 U	0.2 U	0.2 U	0.21 U	18 U	17 U
3,3'-Dichlorobenzidine	mg/kg	108	---	0.2 U	0.19 U	0.21 U	19 U	18 U	0.2 U	1.9 U	0.21 U	0.2 U	0.2 U	0.21 U	18 U	17 U
3-Nitroaniline	mg/kg	---	---	0.2 U	0.19 U	0.21 U	19 U	18 U	0.2 U	1.9 U	0.21 U	0.2 U	0.2 U	0.21 U	18 U	17 U
4,6-Dinitro-2-methylphenol	mg/kg	---	50	0.38 U	0.37 U	0.4 U	37 U	34 U	0.39 U	3.7 U	0.4 U	0.39 U	0.4 U	0.4 U	35 U	32 U
4-Bromophenyl phenyl ether	mg/kg	---	---	0.2 U	0.19 U	0.21 U	19 U	18 U	0.2 U	1.9 U	0.21 U	0.2 U	0.2 U	0.21 U	18 U	17 U
4-Chloro-3-methylphenol	mg/kg	---	---	0.38 U	0.37 U	0.4 U	37 U	34 U	0.39 U	3.7 U	0.4 U	0.39 U	0.4 U	0.4 U	35 U	32 U
4-Chloroaniline	mg/kg	243	2500	0.2 U	0.19 U	0.21 U	19 U	18 U	0.2 U	1.9 U	0.21 U	0.2 U	0.2 U	0.21 U	18 U	17 U
4-Chlorophenyl phenyl ether	mg/kg	---	---	0.2 U	0.19 U	0.21 U	19 U	18 U	0.2 U	1.9 U	0.21 U	0.2 U	0.2 U	0.21 U	18 U	17 U
4-Methylphenol	mg/kg	---	2550000000	0.2 U	0.19 U	0.21 U	1400	1200	0.2 U	600	0.21 U	0.2 U	0.2 U	0.21 U	8400	1700
4-Nitroaniline	mg/kg	2430	2500	0.2 U	0.19 U	0.21 U	19 U	18 U	0.2 U	1.9 U	0.21 U	0.2 U	0.2 U	0.21 U	18 U	17 U
4-Nitrophenol	mg/kg	---	---	0.38 U	0.37 U	0.4 U	37 U	34 U	0.39 U	3.7 U	0.4 U	0.39 U	0.4 U	0.4 U	35 U	32 U
Acenaphthene	mg/kg	---	35000	0.053	0.037 U	0.27	160	130	0.039 U	42	0.073	0.039 U	0.04 U	0.59	560	180
Acenaphthylene	mg/kg	---	---	0.1	0.21	0.04 U	470	360	0.048	140	0.53	0.039 U	0.04 U	0.7	2900	610
Aniline	mg/kg	8530	4370	0.39 U	0.38 U	0.4 U	37 U	34 U	0.39 U	3.7 U	0.4 U	0.4 U	0.4 U	0.41 U	35 U	33 U
Anthracene	mg/kg	---	175000	0.18	0.13	0.24	720	610	0.053	200	0.35	0.039 U	0.04 U	1.1	2400	710
Benz(a)anthracene	mg/kg	14.8	---	0.49	0.12	0.056	500	450	0.19	110	0.31	0.039 U	0.04 U	0.5	1200	470
Benzidine	mg/kg	.0501	1880	0.38 U	0.37 U	0.4 U	37 U	34 U	0.39 U	3.7 U	0.4 U	0.39 U	0.4 U	0.4 U	35 U	32 U
Benzo(a)pyrene	mg/kg	1.48	---	0.44	0.08	0.046	360	320	0.2	67	0.21	0.039 U	0.04 U	0.31	720	280
Benzo(b)fluoranthene	mg/kg	14.8	---	0.37	0.06	0.04 U	240	250	0.19	42	0.16	0.039 U	0.04 U	0.18	500	220
Benzo(g,h,i)perylene	mg/kg	---	---	0.21	0.037 U	0.04 U	110	110	0.17	21	0.082	0.039 U	0.04 U	0.11	270	91
Benzo(k)fluoranthene	mg/kg	148	---	0.38	0.083	0.04 U	290	240	0.18	60	0.18	0.039 U	0.04 U	0.29	610	210
Benzoic acid	mg/kg	---	2500000	0.96 U	0.94 U	1 U	93 U	86 U	0.98 U	9.2 U	1 U	0.99 U	1 U	1 U	88 U	82 U
Benzyl alcohol	mg/kg	---	62500	0.2 U	0.19 U	0.21 U	19 U	18 U	0.2 U	1.9 U	0.21 U	0.2 U	0.2 U	0.21 U	18 U	17 U
Bis(2-chloroethoxy)methane	mg/kg	---	1880	0.2 U	0.19 U	0.21 U	19 U	18 U	0.2 U	1.9 U	0.21 U	0.2 U	0.2 U	0.21 U	18 U	17 U
Bis(2-chloroethyl)ether	mg/kg	21.4	---	0.2 U	0.19 U	0.21 U	19 U	18 U	0.2 U	1.9 U	0.21 U	0.2 U	0.2 U	0.21 U	18 U	17 U
Bis(2-ethylhexyl)phthalate	mg/kg	3470	12500	0.96 U	0.94 U	1 U	93 U	86 U	0.98 U	9.2 U	1 U	0.99 U	1 U	1 U	88 U	82 U
Butyl benzyl phthalate	mg/kg	25600	125000	0.2 U	0.19 U	0.21 U	19 U	18 U	0.2 U	1.9 U	0.21 U	0.2 U	0.2 U	0.21 U	18 U	17 U
Carbazole	mg/kg	---	---	0.2 U	0.19 U	0.21 U	190	180	0.2 U	50	0.21 U	0.2 U	0.2 U	0.2 U	610	210
Chrysene	mg/kg	1480	---	0.49	0.12	0.065	460	430	0.24	100	0.29	0.039 U	0.04 U	0.46	1200	430
Dibenz(a,h)anthracene	mg/kg	1.48	---	0.14	0.037 U	0.04 U	86	80	0.093	17	0.04 U	0.039 U	0.04 U	0.085	220	70
Dibenzofuran	mg/kg	---	823	0.2 U	0.19 U	0.25	390	290	0.2 U	110	0.21 U	0.2 U	0.2 U	0.51	1600	450
Diethyl phthalate	mg/kg	---	500000	0.2 U	0.19 U	0.21 U	19 U	18 U	0.2 U	1.9 U	0.21 U	0.2 U	0.2 U	0.21 U	18 U	17 U
Dimethyl phthalate	mg/kg	---	---	0.2 U	0.19 U	0.21 U	19 U	18 U	0.2 U	1.9 U	0.21 U	0.2 U	0.2 U	0.21 U	18 U	17 U
Di-n-butyl phthalate	mg/kg	---	62500	0.2 U	0.19 U	0.21 U	19 U	18 U	0.2 U	1.9 U	0.21 U	0.2 U	0.2 U	0.21 U	18 U	17 U
Di-n-octyl phthalate	mg/kg	---	---	0.2 U	0.19 U	0.21 U	19 U	18 U	0.2 U	1.9 U	0.21 U	0.2 U	0.2 U	0.21 U	18 U	17 U
Fluoranthene	mg/kg	---	23300	0.61	0.32	0.11	1000	910	0.24	250	0.72	0.039 U	0.04 U	1.2	2900	960
Fluorene	mg/kg	---	23300	0.067	0.13	0.48	600	470	0.039 U	160	0.35	0.039 U	0.04 U	1.7	2600	670
Hexachlorobenzene	mg/kg	30.4	500	0.2 U	0.19 U</td											

Table 2
Analytical Results Summary Table
Springfield Iron
Springfield, Sangamon County, Illinois

Chemical Name	Unit	Location ID		SI-SB01	SI-SB02	SI-SB03	SI-SB04	SI-SB05	SI-SB06	SI-SB07	SI-SB08	SI-SB09	SI-SB09	SI-SB10	SI-TAR01	SI-TAR02
		Field Sample ID		SI-SB01(1-3)- 082812	SI-SB02(4-6)- 082812	SI-SB03(8-10)- 082812	SI-SB04(4-6)- 082812	SI-SB05(4-6)- 082812	SI-SB06(3-5)- 082912	SI-SB07(2-4)- 082912	SI-SB08(4-6)- 082912	SI-SB09(4-6)- 082812	SI-SB09(4-6)- 082812D	SI-SB10 (8-10)- 082812	SI-TAR01- 082812	SI-TAR02- 082912
		Sampling Date		8/28/2012	8/28/2012	8/28/2012	8/28/2012	8/28/2012	8/29/2012	8/29/2012	8/29/2012	8/29/2012	8/28/2012	8/28/2012	8/28/2012	8/29/2012
		RAL Carc ¹	RAL Non-Carc ²													
Pyrene	mg/kg	---	17500	0.61	0.26	0.14	860	790	0.23	210	0.6	0.039 U	0.04 U	1	2500	770
Pyridine	mg/kg	---	823	0.78 U	0.76 U	0.81 U	75 U	69 U	0.79 U	7.4 U	0.81 U	0.8 U	0.81 U	0.82 U	80	66 U
TAL Metals																
Aluminum	mg/kg	---	793000	7200	12000	14000	6200	6300	7100	6200	11000	18000	19000	9400	370 U	240
Antimony	mg/kg	---	329	2.5 U	2.5 U	2.5 U	5.5	2.6	2.7	3.1	2.3 U	2 U	2.3 U	2.4 U	3.7 U	2.3 U
Arsenic	mg/kg	39	225	12	25	2.5	37	30	24	25	13	12	11	4.6	16	13
Barium	mg/kg	--	165000	87	110	220	69	140	110	87	120	220	240	110	3	4.6
Beryllium	mg/kg	138000	1620	1.6	5	0.89	1.4	0.65	1.2	0.84	0.57 U	0.93	0.88	0.68	0.93 U	0.57 U
Cadmium	mg/kg	184000	718	1.5	2	0.62 U	6	3.9	0.6	1.9	0.57 U	0.51 U	0.59 U	0.59 U	5	3.8
Calcium	mg/kg	---	---	21000	38000	5300	8500	6500	8900	2200	78000	12000	9500	26000	590	1300
Chromium	mg/kg	---	1230000	11	120	16	21	14	17	19	16	18	23	16	1.9 U	1.1 U
Cobalt	mg/kg	36800	245	6.9	6.6	5.9	7.6	5.7	11	10	8.2	12	10	5.5	1.9 U	1.1 U
Copper	mg/kg	---	---	44	24	16	44	27	62	53	13	20	23	14	4.6 U	2.8 U
Iron	mg/kg	---	576000	42000	300000	20000	73000	40000	52000	78000	27000	31000	28000	20000	1300	1800
Lead	mg/kg	---	400	43	28	13	86	850	40	740	14	21	17	9.5	19	17
Magnesium	mg/kg	---	---	1600	6800	3900	1800	2400	1000	920	41000	8800	7700	16000	110	250
Manganese	mg/kg	---	---	490	3600	720	390	370	400	450	820	930	460	650	6.8	22
Nickel	mg/kg	1270000	15800	15	16	14	16	14	29	19	20	28	27	18	1.9 U	1.1 U
Potassium	mg/kg	---	---	700	1800	1100	750	820	730	680	780	750	1000	580	130	130
Selenium	mg/kg	---	4120	1.3 U	4.1	1.2 U	4.3	3.4	1.2	1.7	1.1 U	1 U	1.2 U	1.2 U	7.5	6.3
Silver	mg/kg	---	4120	1.3 U	1.2 U	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1 U	1.2 U	1.2 U	1.9 U	1.1 U
Sodium	mg/kg	---	---	460	870	210	650	460	320	150	110	100	130	170	120	140
Thallium	mg/kg	---	---	13 U	12 U	1.2 U	7.6	4.4	11 U	11 U	11 U	1 U	1.2 U	1.2 U	7.2	4.9
Vanadium	mg/kg	---	57.6	29	720	20	69	28	35	44	25	33	37	25	1.9 U	1.6
Zinc	mg/kg	---	247000	120	61	55	300	240	77	150	37	57	71	32	400	250
Mercury	mg/kg	---	24.7	0.056	0.022 U	0.024 U	0.15	0.19	0.031	0.12	0.021 U	0.033	0.035	0.023 U	0.02 U	0.017 U
Cyanide	mg/kg	---	16500	0.29 U	0.29 U	0.3 U	0.35	0.26 U	0.3 U	0.28 U	0.3 U	0.77	0.3 U	0.31 U	0.43 U	0.45 U

Notes:

Bolded and yellow shaded results exceed the carc RALs.

Bolded and blue shaded results exceed the non-carc RALs.

Bolded and red shaded results exceed both the carc and non-carc RALs.

--- = No U.S. EPA RAL for this analyte

Carc = Carcinogenic

ID = Identification

mg/kg = Milligram per kilogram

Non-carc = Non-carcinogenic

RAL = Removal Action Level

SVOC = Semivolatile organic compound

TAL = Target Analyte List

TCL = Target Compound List

U = Analyte not detected above listed reporting limit value

U.S. EPA = United States Environmental Protection Agency

VOC = Volatile organic compound

1 U.S. EPA carc RAL for Residential Soil (September 30, 2010)

2 U.S. EPA non-carc RAL for Residential Soil (September 30, 2010)

APPENDIX A
IEPA DATA TABLES FROM OCTOBER 2010 SOIL SAMPLING

Springfield Iron Company

Springfield, Illinois

TABLE 1 - Soil SVOC

October, 2010

Chemical Name	Exposure Route-Specific Values*		Soil Component of GW Ingestion Route			X101	X102	X103	X104	X105	X106	X107	X108	X109	X110										
	Industrial/Commercial		Class I	Class II	RAL																				
	ingestion	inhalation																							
BNAs (ug/kg)																									
1,2,4-Trichlorobenzene	20000000	3200000	5000	53000		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
1,2-Dichlorobenzene	180000000	560000	17000	43000		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
1,3-Dichlorobenzene	1800000	570000	200	1000		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
1,4-Dichlorobenzene	N/A	17000000	2000	11000		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
2,4,5-Trichlorophenol	200000000	N/A	270000	1400000		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
2,4,6-Trichlorophenol	520000	390000	200	770		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
2,4-Dichlorophenol	6100000	N/A	1000	1000		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
2,4-Dimethylphenol	41000000	N/A	9000	9000	1,600,000	ND	ND	ND	ND	ND	360,000	3,800,000	ND	45,000	110,000										
2,4-Dinitrophenol	4100000	N/A	200	200		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
2,4-Dinitrotoluene	8400	N/A	0.8	0.8		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
2,6-Dinitrotoluene	8400	N/A	0.7	0.7		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
2-Chloronaphthalene	160000000	N/A	240000	1200000		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
2-Chlorophenol	10000000	53000000	4000	20000		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
2-Methylnaphthalene	8200000	N/A	7700	39000		ND	ND	310	630	190	110,000	2,400,000	ND	47,000	140,000										
2-Methylphenol	100000000	N/A	15000	15000	39,000,000	ND	ND	ND	ND	ND	170,000	1,600,000	ND	21,000	45,000										
2-Nitroaniline	N/A	120000	N/A	N/A		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
2-Nitrophenol	N/A	N/A	N/A	N/A		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
3 & 4-Methylphenol	10000000	N/A	240	240	3,900,000	ND	ND	ND	ND	ND	760,000	6,400,000	ND	100,000	ND										
3,3'-Dichlorobenzidine	13000	N/A	7	33		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
3-Nitroaniline	N/A	N/A	N/A	N/A		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
4,6-Dinitro-2-methylphenol	720000	N/A	N/A	N/A		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
4-Bromophenyl phenyl ether	N/A	N/A	N/A	N/A		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
4-Chloro-3-methylphenol	14000000	N/A	24000	120000		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
4-Chloroaniline	8200000	N/A	700	700		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
4-Chlorophenyl phenyl ether	N/A	N/A	N/A	N/A		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
4-Nitroaniline	N/A	N/A	N/A	N/A		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
4-Nitrophenol	N/A	N/A	N/A	N/A		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
Acenaphthene	120000000	N/A	570000	2900000		ND	ND	ND	ND	ND	29000	350000	75000	8600	24000										
Acenaphthylene	61000000	N/A	24000	120000		ND	ND	ND	ND	ND	130,000	1,100,000	ND	45,000	160,000										
Anthracene	61000000	N/A	12000000	59000000		ND	ND	75	70	250000	1400000	390000	38000	110000											
Benz(a)anthracene	8000	N/A	2000	8000	88,000	ND	190	160	220	170	110,000	ND	220,000	ND	64,000										
Benz(a)pyrene	800	N/A	8000	82000	88,000	ND	160	260	170	130	47,000	ND	130,000	15,000	40,000										
Benz(b)fluoranthene	8000	N/A	5000	25000		ND	160	290	230	140	39000	ND	96000	14000	38000										
Benz(g,h,i)perylene	61000000	N/A	32000000	1.6E+08		ND	64	110	ND	ND	7900	ND	23000	2600	7300										
Benz(k)fluoranthene	78000	N/A	49000	250000	870,000	ND	210	340	290	170	63,000	ND	140,000	20000	51,000										
Bis(2-chloroethoxy)methane	N/A	N/A	N/A	N/A		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
Bis(2-chloroethyl)ether	5000	470	0.4	0.4		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
Bis(2-chloroisopropyl)ether	82000000	2400	2400			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
Bis(2-ethylhexyl)phthalate	410000	31000000	36000000	31000000		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
Butyl benzyl phthalate	410000000	930000	930000	930000		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
Carbazole	290000	N/A	600	2800	3,200,000	ND	ND	ND	ND	ND	82,000	ND	120,000	12,000	30,000										
Chrysene	780000	N/A	160000	800000		ND	180	150	280	170	140000	ND	200,000	22000	60000										
Dibenzo(a,h)anthracene	800	N/A	2000	7600		ND	ND	ND	ND	ND	ND	ND	ND	1200	3,100										
Dibenzofuran	8200000	N/A	15000	76000	3,100,000	ND	ND	ND	ND	160	ND	110,000	1,100,000	230,000	ND										
Diethyl phthalate	1000000000	2000000	470000	470000		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
Dimethyl phthalate	1000000000	1300000	380000	380000		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
Di-n-butyl phthalate	200000000	2300000	2300000	2300000		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
Di-n-octyl phthalate	41000000	10000000	10000000	10000000		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
Fluoranthene	8200000	N/A	430000	2100000		ND	350	160	410	300	320000	ND	500000	56000	17000										
Fluorene	82000000	N/A	560000	280000	31,000,000	ND	ND	ND	ND	ND	200000	1,600,000	340000	42000	110000										
Hexachlorobenzene	4000	1800	2000	11000		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
Hexachlorobutadiene	410000	1000000	2900	15000		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
Hexachlorocyclopentadiene	14000000	16000	400000	2200000		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
Hexachloroethane	2000000	N/A	500	2600		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
Indeno(1,2,3-cd)pyrene	8000	N/A	14000	69000	88,000	ND	75	160	67	ND	ND	ND	33,000	3800	10000										
Isophorone	410000000	4600000	8000	8000		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
Methylene di-p-phenyl diisocyanate	N/A	N/A	N/A	N/A		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
Naphthalene	41000000	270000	12000	18000	31,000,000	ND	ND	150	280	110	100,000	2,900,000	ND	82,000	180,000										
Nitrobenzene	1000000	140000	100	100		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
N-Nitrosodi-n-propylamine	N/A	N/A	N/A	N/A		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
N-Nitrosodiphenylamine	1200000	N/A	1000	5600		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
Pentachlorophenol	24000	N/A	30	140		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
Phenanthrene	61000000	N/A	220000	1100000		ND	180	160	600	310	580,000	3,300,000	1,200,000	140000	330,000										
Phenol	1000000000	N/A	100000	100000	470000000	ND	ND	ND	ND	ND	250,000	1,900,000	ND	25000	47000										
Pyrene	61000000	N/A	4200000	21000000		ND	280	150	420	260	210000	ND	390000	44000	140000										
Toluene 2,4-diisocyanate	N/A	N/A	N/A	N/A		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										

* Illinois EPA Tier 1 Soil Remediation Objectives for Industrial/Commercial Properties; 35 IAC 742, Appendix B, Table B & IEPA Non-TACO Guidance

All results are reported as ug/kg-dry unless otherwise noted.

Bold/Shaded results indicate concentrations exceeding most stringent Tier 1 Values

Springfield Iron Company
Springfield, Illinois
TABLE 2 - Soil VOC

October, 2010

Chemical Name	Exposure Route-Specific Values*				Soil Component of GW Ingestion Route Values*		RAL	X101	X102	X103	X104	X105	X106	X107	X108	X109	X110												
	Industrial/Commercial		Construction Worker		Class I	Class II																							
	ingestion	inhalation	ingestion	inhalation																									
VOCs (ug/kg)																													
1,1,1,2-Tetrachloroethane	61000000	1000000	6100000	1000000	2000	10000		ND	ND	ND	ND																		
1,1,1-Trichloroethane	N/A	1,200,000	N/A	1200000	2000	9600		ND	ND	ND	ND																		
1,1,2,2-Tetrachloroethane	120000000	2000000	12000000	2000000	3300	3300		ND	ND	ND	ND																		
1,1,2-Trichloroethane	8200000	1800000	8200000	1800000	20	300		ND	ND	ND	ND																		
1,1-Dichloroethane	200000000	1700000	200000000	130000	23000	110000		ND	ND	ND	ND																		
1,1-Dichloroethene	18000000	1500000	1800000	300000	60	300		ND	ND	ND	ND																		
1,2-Dichloroethane	63000	700	1400000	990	20	100		ND	ND	ND	ND																		
1,2-Dichloropropane	84000	23000	1800000	500	30	150		ND	ND	ND	ND																		
2-Butanone	1000000000	25000000	120000000	710000	17000	17000		ND	ND	ND	ND																		
2-Hexanone	82000000	110000	8200000	720	1300	1300		ND	ND	ND	ND																		
4-Methyl-2-pentanone	N/A	3100000	N/A	340000	N/A	N/A		ND	ND	2.6	ND																		
Acetone	200000000	100000000	200000000	100000000	16000	16000		ND	ND	200	91																		
Benzene	100000	1600	2300000	2200	30	170	2200	ND	18000	45000	200	41																	
Bromodichloromethane	92000	300000	2000000	3000000	600	600		ND	ND	ND	ND	ND																	
Bromoform	720000	100000	16000000	140000	800	800		ND	ND	ND	ND	ND																	
Bromomethane	2900000	15000	1000000	3900	200	1200		ND	ND	ND	ND	ND																	
Carbon disulfide	200000000	720000	20000000	9000	32000	160000		ND	ND	ND	23	3.4																	
Carbon tetrachloride	44000	640	410000	900	70	330		ND	ND	ND	ND	ND																	
Chlorobenzene	41000000	210000	4100000	1300	1000	6500		ND	ND	ND	ND	ND																	
Chloroethane	820000000	1500000	82000000	94000	15000	70000		ND	ND	ND	ND	ND																	
Chloroform	940000	540	2000000	760	600	2900		ND	ND	ND	ND	ND																	
Chloromethane	8200000	170000	820000	1100	140	680		ND	ND	ND	ND	ND																	
cis-1,2-Dichloroethene	20000000	1200000	20000000	1200000	400	1100		ND	ND	ND	ND	ND																	
cis-1,3-Dichloropropene	57000	2100	1200000	390	4	20		ND	ND	ND	ND	ND																	
Dibromochloromethane	41000000	1300000	41000000	1300000	400	400		ND	ND	ND	ND	ND																	
Ethylbenzene	200000000	400000	20000000	58000	13000	19000		ND	11000	9900	130	19																	
Methyl tert-butyl ether	20000000	8800000	2000000	140000	320	320		ND	ND	ND	ND	ND																	
Methylene chloride	760000	24000	12000000	34000	20	200		ND	ND	ND	ND	ND																	
Tetrachloroethene	110000	20000	2400000	28000	60	300		ND	ND	ND	ND	ND																	
Toluene	410000000	650000	410000000	42000	12000	29000	160,000	ND	ND	ND	ND	3.1	ND	ND	44000	67000	200	99											
trans-1,2-Dichloroethene	41000000	3100000	41000000	3100000	700	3400		ND	ND	ND	ND	ND																	
trans-1,3-Dichloropropene	57000	2100	1200000	390	4	20		ND	ND	ND	ND	ND																	
Trichloroethene	520000	8900	1200000	12000	60	300		ND	ND	ND	ND	ND																	
Vinyl chloride	7900	1100	170000	1100	10	70		ND	ND	ND	ND	ND																	
Xylenes, Total	1000000000	320000	410000000	320000	150000	150000		ND	97000	94000	600	ND																	

* Illinois EPA Tier 1 Soil Remediation Objectives for Industrial/Commercial Properties; 35 IAC 742, Appendix B & IEPA Non-TACO Guidance

All results are reported as ug/kg-dry unless otherwise noted.

Bold/Shaded results indicate concentrations exceeding most stringent Tier 1 Values

Springfield Iron Company
Springfield, Illinois
TABLE 3 - Soil Inorganic

October, 2010

Chemical Name	Concentrations of Chemicals in Background Soils*		Exposure Route-Specific Values**		Exposure Route-Specific Values**		X101	X102	X103	X104	X105	X106	X107	X108	X109	X110											
	Indust/Comm		Const Worker																								
	Metro	Outside	ingestion	inhalation	ingestion	inhalation																					
Inorganics																											
pH (mg/kg)							7.2	6.8	7.1	5.6	5.5	7.6	7.1	7.6	6.7	5.2											
Antimony	4.0	3.3	820	N/A	82	N/A	ND	ND	ND	ND	ND	ND	ND	ND	64.5	ND											
Arsenic	13.0	11.3	N/A	1200	61	25000	26.2	27.7	12.2	23.7	9.07	16.8	15.8	13.8	6.4	24.1											
Barium	110	122	140000	910000	14000	870000	154	202	32.7	129	40.4	17.3	6.6	2.59	37.9	145											
Beryllium	0.59	0.56	4100	2100	410	44000	0.44	ND	0.2	ND	ND	ND	ND	ND	ND	0.14											
Cadmium	0.6	0.50	2000	2800	200	59000	5.95	10.2	7.52	19.5	60.7	6.38	5.54	5.31	133	13											
Calcium	N/A	N/A	N/A	N/A	N/A	N/A	2550	5540	23500	6380	7900	2940	966	1020	2250	3900											
Chromium	16.2	13.0	6100	420	4100	690	22	38	10.7	21.1	56.8	6.86	1.52	1.53	29.5	20.6											
Cobalt	8.9	8.9	120000	N/A	12000	N/A	13.2	7.51	4.84	5.56	11.6	2.02	ND	1.37	58.3	7.83											
Copper	19.6	12.0	82000	N/A	8200	N/A	24	3590	18.8	172	11.4	4.58	7.26	3.1	508	40											
Iron	15900	15000	N/A	N/A	N/A	N/A	32000	39000	28500	48500	42400	10500	1770	6600	39200	44900											
Lead	36.0	20.9	800	N/A	700	N/A	19.7	557	5.63	240	49	30.4	43.3	15.3	635	150											
Magnesium	N/A	N/A	N/A	N/A	N/A	N/A	4440	3130	1020	723	2140	248	111	164	304	1640											
Manganese	636	630	41000	91000	4100	8700	594	281	356	375	878	38.9	10.6	17.9	977	330											
Nickel	18.0	13.0	41000	21000	4100	440000	25.4	54.2	17.5	12.3	18.6	4.66	1.22	2.03	62.1	19.5											
Selenium	0.48	0.37	10000	N/A	1000	N/A	ND	ND	ND	ND	ND	ND	2.21	ND	ND	ND											
Silver	0.55	0.50	10000	N/A	1000	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND											
Sodium	N/A	N/A	N/A	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND											
Thallium	0.32	0.42	160	N/A	160	N/A	ND	ND	ND	ND	ND	3.52	6	5.09	ND	ND											
Vanadium	25.2	25.0	14000	N/A	1400	N/A	46.1	34.7	26.2	51.1	305	12	2.8	3.23	79	34.2											
Zinc	95.0	60.2	610000	N/A	61000	N/A	72.2	1790	67.3	312	91	285	253	ND	172	169											
Cyanide	0.51	0.50	41000	N/A	4100	N/A	0.05	0.21	0.18	26.6	ND	0.23	1.52	2.21	0.06	0.41											

* Illinois EPA Concentrations of Inorganic Chemicals in Background Soils; 35 IAC 742, Appendix A, Table G

** Illinois EPA Tier 1 Soil Remediation Objectives for Industrial/Commercial Properties; 35 IAC 742, Appendix B, Table B & IEPA Non-TACO Guidance

*** Illinois EPA Tier 1 Soil Remediation Objectives for Residential Properties; 35 IAC 742, Appendix B, Table C

All results are reported as mg/kg-dry unless otherwise noted.

Bold/Shaded results indicate concentrations exceeding the relevant Tier 1 Values

APPENDIX B
PHOTOGRAPHIC DOCUMENTATION



Site: Springfield Iron

Photograph No.: 1

Direction: Southwest

Subject: U.S. EPA FIELDS advancing a soil boring in the northeast region of the Site

Date: 8/28/2012

Photographer: David Sena



Site: Springfield Iron

Photograph No.: 2

Direction: East

Subject: U.S. EPA FIELDS advancing a soil boring in the central region of the Site north of an aboveground storage tank containing diesel fuel

Date: 8/29/2012

Photographer: David Sena



Site: Springfield Iron

Photograph No.: 3

Direction: Down

Subject: Soil cores from SI-SB04 from northeast region of the Site

Date: 8/28/2012

Photographer: David Sena



Site: Springfield Iron

Photograph No.: 4

Direction: Down

Subject: Soil cores from SI-SB07 from central region of the Site

Date: 8/29/2012

Photographer: David Sena



Site: Springfield Iron

Photograph No.: 5

Direction: Down

Subject: Coal-tar seep in northeast region of the Site

Date: 8/28/2012

Photographer: David Sena



Site: Springfield Iron

Photograph No.: 6

Direction: Down

Subject: Coal-tar seep in northeast region of the Site

Date: 8/28/2012

Photographer: David Sena



Site: Springfield Iron

Photograph No.: 7

Direction: Down

Subject: Coal tar seeping onto sidewalk in northeast region of the Site

Date: 8/28/2012

Photographer: David Sena

APPENDIX C
SOIL BORING LOGS

WESTON SOLUTIONS, INC.					PAGE 1 OF 1		
Job Name	Springfield Iron Site Assessment	Boring No.	SB-01				
Job No.	20405.012.001.1899.00	Drilling Method	Direct Push				
Date Drilled	Tuesday, August 28, 2012	Boring Depth	6 ft bgs				
Drilling Co.	U.S. EPA FIELDS	Weather	80° F, clear, calm				
Drill Foreman	Jim Ursic	Drill Rig Type	Geoprobe Track-Mounted Rig				
Logged By	David Sena						
Depth ft BGS	Description	USCS Class	Other Observations/ Notes	Head Space (ppm)	% Rec.	Sample Time	Sample ID
	Asphalt	-	-				
1 -	Light gray silt with gravel (small, angular), soft, poorly graded, dry	ML	No odor, no staining	0.3	100		
2 -	Black sand and coal cinders with some clay, well graded, dry	SW	Sight black staining and cinders			17:00	SI-SB01(1-3)-082812
3 -	Light brown, brown, and gray mottled lean clay with few sand (medium-grained)	CL	No odor, no staining	0.2			
4 -				0	100		
5 -							
6 -							
7 -							
8 -							
9 -							
10 -							
11 -							
12 -							
13 -							
14 -							
15 -							

WESTON SOLUTIONS, INC.					PAGE 1 OF 1		
Job Name	Springfield Iron Site Assessment	Boring No.	SB-02				
Job No.	20405.012.001.1899.00						
Date Drilled	Tuesday, August 28, 2012	Drilling Method	Direct Push				
Drilling Co.	U.S. EPA FIELDS	Boring Depth	9 ft bgs				
Drill Foreman	Jim Ursic	Weather	80° F, clear, calm				
Logged By	David Sena	Drill Rig Type	Geoprobe Track-Mounted Rig				
Depth ft BGS	Description	USCS Class	Other Observations/ Notes	Head Space (ppm)	% Rec.	Sample Time	Sample ID
1 -	No recovery	-	-	-			
2 -	Gray silt with gravel (coarse, angular), well graded, and dry. 2" coal cinder seam present.	ML	No staining, no odor	1	50		
3 -	Transitioning to black and reddish-black mottled color with depth			1			
4 -	Dark brown and black mottled clay, medium stiffness, moist. Transitioning to light brown color with depth.	CL	No staining, hydrocarbon odor	2.5	50		
5 -				0.3		16:30	SI-SB02(4-6)-082812
6 -							
7 -							
8 -							
9 -							
10 -							
11 -							
12 -							
13 -							
14 -							
15 -							

WESTON SOLUTIONS, INC.					PAGE 1 OF 1			
Job Name	Springfield Iron Site Assessment	Boring No.	SB-04					
Job No.	20405.012.001.1899.00							
Date Drilled	Tuesday, August 28, 2012	Drilling Method	Direct Push					
Drilling Co.	U.S. EPA FIELDS	Boring Depth	9 ft bgs					
Drill Foreman	Jim Ursic	Weather	80° F, clear, calm					
Logged By	David Sena	Drill Rig Type	Geoprobe Track-Mounted Rig					
Depth ft BGS	Description	USCS Class	Other Observations/ Notes	Head Space (ppm)	% Rec.	Sample Time	Sample ID	
1 -	4" top soil to brownish gray and yellow-brown mottled clay with some silt and trace medium-grained sand, medium firm, dry.	CL	No staining, no odor	1.4	50			
2 -								
3 -	Black slag, dry	Fill	Coal tar odor	0.3	25			
4 -	Reddish brown lean clay with some silt and coal tar, dry	Fill	Black staining and coal tar odor					
5 -	Black slag and coal tar, dry	Fill	Black staining and coal tar odor	3.3	14:45	SI-SB04(4-6)082812		
6 -	Brown silt with trace gravel (small, angular) and trace slag, well graded, soft, dry	ML / Fill	Light black staining	0.3				
7 -	Gray, black, and orange mottled lean clay with trace medium-grained sand, soft, moist	CL	No staining, no odor		25			
8 -			0.3					
9 -								
10 -								
11 -								
12 -								
13 -								
14 -								
15 -								

WESTON SOLUTIONS, INC.					PAGE 1 OF 1		
Job Name	Springfield Iron Site Assessment	Boring No.	SB-05				
Job No.	20405.012.001.1899.00						
Date Drilled	Tuesday, August 28, 2012	Drilling Method	Direct Push				
Drilling Co.	U.S. EPA FIELDS	Boring Depth	6 ft bgs				
Drill Foreman	Jim Ursic	Weather	80° F, clear, calm				
Logged By	David Sena	Drill Rig Type	Geoprobe Track-Mounted Rig				
Depth ft BGS	Description	USCS Class	Other Observations/ Notes	Head Space (ppm)	% Rec.	Sample Time	Sample ID
1 -	8" top soil transitioning to dark brown and light brown silt with some clay, dry, very hard. The bottom 4" is brick.	ML / Fill	No staining, no odor	0.6	100		
2 -				1.1			
3 -					50		
4 -	Black and reddish-brown coal cinder with some silt and some coal tar, dry.	Fill	Black staining, coal tar odor	10.6		13:30	SI-SB05(4-6)-082812
5 -							
6 -	No recovery because coal tar plugged up the Geoprobe cutting shoe						
7 -		-	-	-	0		
8 -							
9 -							
10 -							
11 -							
12 -							
13 -							
14 -							
15 -							

WESTON SOLUTIONS, INC.				PAGE 1 OF 1			
Job Name	Springfield Iron Site Assessment	Boring No.	SB-06				
Job No.	20405.012.001.1899.00	Drilling Method	Direct Push				
Date Drilled	Wednesday, August 29, 2012	Boring Depth	9 ft bgs				
Drilling Co.	U.S. EPA FIELDS	Weather	71° F, clear, calm				
Drill Foreman	Jim Ursic	Drill Rig Type	Geoprobe Track-Mounted Rig				
Depth ft BGS	Description	USCS Class	Other Observations/ Notes	Head Space (ppm)	% Rec.	Sample Time	Sample ID
1 -	No recovery	-	-	-	50		
2 -	Black sandy silt with trace gravel (angular, small), dry, medium softness. Few coal cinders and slag present at 3.5 feet bgs.	ML / Fill	No staining, no odor	0.8			
3 -				1		08:10	SI-SB06(3-5)-082912
4 -				0.3	75		
5 -	Dark brown and orange mottled silt with some clay. Few wood chips present throughout.	CL	No staining, no odor	0.2			
6 -	Dark brown and orange mottled clay with trace medium-grained sand, stiff, dry.	CL	No staining, no odor		75		
7 -							
8 -							
9 -							
10 -							
11 -							
12 -							
13 -							
14 -							
15 -							

WESTON SOLUTIONS, INC.					PAGE 1 OF 1		
Job Name	Springfield Iron Site Assessment	Boring No.	SB-07				
Job No.	20405.012.001.1899.00						
Date Drilled	Wednesday, August 29, 2012	Drilling Method	Direct Push				
Drilling Co.	U.S. EPA FIELDS	Boring Depth	9 ft bgs				
Drill Foreman	Jim Ursic	Weather	71° F, clear, calm				
Logged By	David Sena	Drill Rig Type	Geoprobe Track-Mounted Rig				
Depth ft BGS	Description	USCS Class	Other Observations/ Notes	Head Space (ppm)	% Rec.	Sample Time	Sample ID
1 -	6" grayish-brown top soil transitioning to orangish brown silt with medium-grained sand and gravel (sub angular, small). Slag at 2.5 feet bgs.	ML / Fill	No staining, no odor	0.2	75		
2 -				0.9		09:35	SI-SB07(2-4)-082912
3 -		CL	No staining, no odor	1	75		
4 -	Grayish-brown and orange mottled clay with trace coarse-grained sand, medium softness, dry			0.6			
5 -				0.4			
6 -							
7 -	Orangish-brown clay with some silt, soft, moist						
8 -		CL	No staining, no odor		75		
9 -							
10 -							
11 -							
12 -							
13 -							
14 -							
15 -							

WESTON SOLUTIONS, INC.				PAGE 1 OF 1			
Job Name	Springfield Iron Site Assessment	Boring No.	SB-08				
Job No.	20405.012.001.1899.00	Drilling Method	Direct Push				
Date Drilled	Wednesday, August 29, 2012	Boring Depth	9 ft bgs				
Drilling Co.	U.S. EPA FIELDS	Weather	71° F, clear, calm				
Drill Foreman	Jim Ursic	Drill Rig Type	Geoprobe Track-Mounted Rig				
Logged By	David Sena	Other Observations/ Notes	Head Space (ppm)	% Rec.	Sample Time	Sample ID	
Depth ft BGS	Description	USCS Class					
1 -	4" top soil transitioning to dark brown silt with some medium-grained sand and little slag, brick, and gravel (angular, large), dry	ML / Fill	No staining, no odor	0.7	50		
2 -							
3 -							
4 -	Dark Brown to gray lean clay with little gravel (angular, large), moist, stiff	CL	No staining, hydrocarbon, potentially diesel fuel odor	8.7	25		
5 -						08:45	SI-SB08(4-6)-082912
6 -							
7 -							
8 -							
9 -							
10 -							
11 -							
12 -							
13 -							
14 -							
15 -							

WESTON SOLUTIONS, INC.				PAGE 1 OF 1			
Job Name	Springfield Iron Site Assessment	Boring No.	SB-09				
Job No.	20405.012.001.1899.00						
Date Drilled	Tuesday, August 28, 2012	Drilling Method	Direct Push				
Drilling Co.	U.S. EPA FIELDS	Boring Depth	9 ft bgs				
Drill Foreman	Jim Ursic	Weather	80° F, clear, calm				
Logged By	David Sena	Drill Rig Type	Geoprobe Track-Mounted Rig				
Depth ft BGS	Description	USCS Class	Other Observations/ Notes	Head Space (ppm)	% Rec.	Sample Time	Sample ID
1 -	8" top soil transitioning to light brown silt, medium stiff, dry	ML	No staining, no odor	0.3	100		
2 -				0.5			
3 -		CL	No staining, no odor	1.6	100		
4 -	Light brown transitioning to orangish gray lean clay with trace sand and trace silt, soft, moist			1.3		13:00	SI-SB09(4-6)-082812
5 -				1.6		13:05	SI-SB09(4-6)-082812D
6 -				0.4			
7 -		ML	No staining, no odor	0.5	100		
8 -	Orangish-brown silt with some clay, soft, moist						
9 -							
10 -							
11 -							
12 -							
13 -							
14 -							
15 -							

WESTON SOLUTIONS, INC.					PAGE 1 OF 1		
Job Name	Springfield Iron Site Assessment	Boring No.	SB-10				
Job No.	20405.012.001.1899.00						
Date Drilled	Tuesday, August 28, 2012	Drilling Method	Direct Push				
Drilling Co.	U.S. EPA FIELDS	Boring Depth	12 ft bgs				
Drill Foreman	Jim Ursic	Weather	80° F, clear, calm				
Logged By	David Sena	Drill Rig Type	Geoprobe Track-Mounted Rig				
Depth ft BGS	Description	USCS Class	Other Observations/ Notes	Head Space (ppm)	% Rec.	Sample Time	Sample ID
1 -	Brick	FILL	-	0	50		
2 -	Grayish-brown sandy silty, poorly graded, soft, dry	ML	No staining, no odor	0.5			
3 -	Orange and brown mottled silt with some clay and trace medium-grained sand, medium softness, dry	ML	No staining, no odor	0.4	90		
4 -				2.5	100		
5 -	Gray and orange kean clay with trace sand, moist, becoming wetter with depth.	CL	No staining, hydrocarbon, potentially diesel fuel, odor	6.8		12:05	SI-SB10(8-10)-082812
6 -				2.5	100		
7 -							
8 -							
9 -	Gray, orange, and black mottled lean clay with trace sand, moist,	CL	Black staining, hydrocarbon, potentially diesel fuel, odor				
10 -							
11 -							
12 -							
13 -							
14 -							
15 -							

APPENDIX D
LABORATORY ANALYTICAL AND DATA VALIDATION REPORTS

**SPRINGFIELD IRON
SPRINGFIELD, IL
DATA VALIDATION REPORT**

Date: September 17, 2012

Laboratory: STAT Analysis Corporation

Laboratory Project #: 12080887

Data Validation Performed By: Tonya Balla, Weston Solutions, Inc.

Weston Analytical Work Order #/TDD #: 20405.012.001.1946.00/S05-0001-1208-010

This data validation report has been prepared by WESTON. This report documents the data validation for fourteen samples (soil and tar) collected for the Springfield Iron Site Assessment that were analyzed for the following parameters and U.S. Environmental Protection Agency (U.S. EPA) methods:

- Target Analyte List (TAL) Metals by SW-846 Methods 6020, 7471
- Volatile Organic Compounds (VOC) by SW-846 8260B
- Semivolatile Organic Compounds (SVOCs) by SW-846 8270C
- Cyanide – by SW-846 9012A

A level II data package was requested from STAT. The data validation was conducted in general accordance with the “Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review” dated January 2010 and Superfund Organic methods Data Review dated June 2008.

TAL METALS BY SW-846 METHODS 6020, 7471

1. Samples

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID 12080997	Matrix	Date Collected	Date Analyzed
SB10 6-8 082812	001 A/B	Soil	082812	9/4, 9/6/12
TAR01 082812	002 A/B	Tar	082812	9/4, 9/6/12
SB09 4-6 082812	003 A/B	Soil	082812	9/4, 9/6/12
SB09 4-6 082812D	004 A/B	Soil	082812	9/4, 9/5, 9/6/12
SB05 4-6 082112	005 A/B	Soil	082812	9/4, 9/5, 9/6/12
SB04 4-6 082812	006 A/B	Soil	082812	9/4, 9/5, 9/6/12
SB03 8-10 082812	007 A/B	Soil	082812	9/4, 9/6/12
SB02 4-6 082812	008 A/B	Soil	082812	9/4, 9/5, 9/6/12
SB02 2-3 082812	009 A/B	Soil	082812	9/4, 9/5, 9/6/12
SB06 3-5 082912	010 A/B	Soil	082912	9/4, 9/5, 9/6/12
SB08 4-6 082912	011 A/B	Soil	082912	9/4, 9/5, 9/6/12
SB07 2-4 082912	012 A/B	Soil	082912	9/4, 9/5, 9/6/12

Samples	Lab ID 12080997	Matrix	Date Collected	Date Analyzed
TAR01 -082912	013 A	Tar	082912	9/4, 9/6/12

2. Holding Times

The samples were analyzed within the required holding time limit of 28 days for mercury and 180 days from sample collection to analysis for the remaining analytes.

3. Blank Results

Method blanks were analyzed with the metals and mercury analyses. The blanks were free of target analyte contamination above the reporting limits. IMBS2 did contain sb, be, pb, and th but all below the reporting limit.

4. LCS Results

The LCS recoveries were within the laboratory-established QC limits (80 – 120%) for target analytes.

5. MS and MSD Results

A MS/MSD was presented for sample 12080997-007B (metals and mercury). The following recoveries were outside control limits: sb (23.6, 25.4MSD), al (21.5, 3040MSD), ca (-6.9, -229MSD), fe (902, 2030MSD), mg (222MSD), mn (-197, -281MSD), k(69.5), ba (-35.1, -36.6MSD). Most of these recoveries are greater than 4 times the spike amount. However, positive sb, mg, and ba results in sample 007 are flagged as estimated J due to poor precision and professional judgment.

A MS/MSD was presented for sample 12080997-013A. The following recoveries were outside control limits: al (626, 432MSD), fe (2260, 2970), mg (172, 39.1MSD), mn (178MSD), ca (-189, -287MSD), na (74.9), zn (-225), sb (129), Most of these recoveries are greater than 4 times the spike amount. However, positive mn, na, and sb results for sample 013 are flagged as estimated J due to poor precision and professional judgment.

6. Field Duplicate

A field duplicate pair was part of the sample set. The samples showed good overall correlation. No qualifications are required.

8. Overall Assessment

Qualifications were applied based on MS/MSD discrepancies.

Overall, the metals data are acceptable for use based on the information received.

VOCs by SW-846 METHODS 8260B

1. Samples

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID 12080997	Matrix	Date Collected	Date Analyzed
SB10 6-8 082812	001 A/B	Soil	082812	9/5/12
TAR01 082812	002 A/B	Tar	082812	9/6/12
SB09 4-6 082812	003 A/B	Soil	082812	9/5/12
SB09 4-6 082812D	004 A/B	Soil	082812	9/5/12
SB05 4-6 082112	005 A/B	Soil	082812	9/6/12
SB04 4-6 082812	006 A/B	Soil	082812	9/6/12
SB03 8-10 082812	007 A/B	Soil	082812	9/5/12
SB02 4-6 082812	008 A/B	Soil	082812	9/6/12
SB02 2-3 082812	009 A/B	Soil	082812	9/6/12
SB06 3-5 082912	010 A/B	Soil	082912	9/6/12
SB08 4-6 082912	011 A/B	Soil	082912	9/6/12
SB07 2-4 082912	012 A/B	Soil	082912	9/6/12
TAR01 -082912	013 A	Tar	082912	9/6/12
Trip Blank	014 A	Water	082912	9/6/12

2. Holding Times

The samples were analyzed within the required holding time limit.

3. Blank Results

Method blanks were analyzed. Blank VBLK090512-7 contained the following compounds: bromodichloromethane (0.00064), bromomethane (0.00062), carbon disulfide (0.0003), and chloroform (0.00118). Method blank VBLK090612-3 contained the following compounds: chloroform (0.00057), methylene chloride (0.001), and tetrachloroethene (0.00357). The samples were not affected by this very low level contamination. Method blank VBLK090612-7 was free of contamination.

4. LCS Results

Three LCS samples were presented. LC LVCS090612-7 (associated with the water sample – 014) had the following recoveries outside control limits: bromomethane (34.3, 37.8LCSD). The non-detect bromomethane result in sample 014 is flagged as estimated UJ due to the low LCS recovery. All remaining LCS recoveries were within required control limits.

5. MS and MSD Results

A MS/MSD was presented for sample 12080997-007. The following recoveries were outside control limits: 1,1,2,2,-tetrachloroethane (1010, 843 MSD), bromoform (68.4MSD),

dibromochloromethane (65.4 MSD), ethylbenzene (66.7MSD), methylene chloride (61.5MSD), styrene (64.7MSD), tetrachloroethene (68.3MSD), trans-1,3-dichloropropene (69.6MSD), xylenes total (69.5MSD). A MS/MSD was also presented for sample 12080997-013. The following recoveries were outside control limits: bromomethane (49.8, 53.7MSD), chloroethane (61.4, 57.7MSD). A third MS/MSD was presented from an alternate sample set. This sample was not reviewed since it is not related to this project. Since the LCS results for the soil and tar samples were all acceptable, most of the recoveries outside control limits were only MSD, most of the MS and/or MSD compounds with issues were not detected in the corresponding investigative samples, and professional judgment, no qualifications are required based on the MS/MSD issues.

6. Surrogate

All surrogate recoveries were within required control limits.

7. Field Duplicate

A field duplicate pair was part of the sample set. The samples showed excellent overall correlation. No qualifications are required.

8. Overall Assessment

Qualifications were applied.

The VOC data are acceptable for use based on the information received.

Semivolatiles by SW-846 METHODS 8270C

1. Samples

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID 12080997	Matrix	Date Collected	Date Analyzed
SB10 6-8 082812	001 A/B	Soil	082812	9/5/12
TAR01 082812	002 A/B	Tar	082812	9/6/12
SB09 4-6 082812	003 A/B	Soil	082812	9/5/12
SB09 4-6 082812D	004 A/B	Soil	082812	9/5/12
SB05 4-6 082112	005 A/B	Soil	082812	9/5, 9/6/12
SB04 4-6 082812	006 A/B	Soil	082812	9/5, 9/6/12
SB03 8-10 082812	007 A/B	Soil	082812	9/5/12
SB02 4-6 082812	008 A/B	Soil	082812	9/7/12
SB02 2-3 082812	009 A/B	Soil	082812	9/7/12
SB06 3-5 082912	010 A/B	Soil	082912	9/5/12
SB08 4-6 082912	011 A/B	Soil	082912	9/5/12
SB07 2-4 082912	012 A/B	Soil	082912	9/5, 9/6/12
TAR01 -082912	013 A	Tar	082912	9/7/12

2. Holding Times

The samples were analyzed within the required holding time limit.

3. Blank Results

Method blanks were analyzed. The blanks were free of target analyte contamination above the reporting limits.

4. LCS Results

The LCS recoveries were within laboratory required control limits.

5. MS and MSD Results

A MS/MSD was presented for samples 12080997-007 and 013. Several recoveries were outside control limits but greater than 4 times the spike amount; therefore, no qualifications are required. All remaining recoveries were within the laboratory required control limits.

6. Surrogate

The following samples had surrogate recoveries outside control limits: 002 (PHEND14), 005 (PH246BR and PHD5), and 006 (PH246BR). Two surrogates in the same fraction must be outside control limits to warrant qualification. Positive SVOC results in sample 005 are flagged as estimated J, non-detects do not require qualification.

7. Field Duplicate

A field duplicate pair was part of the sample set. The samples showed excellent overall correlation. No qualifications are required.

8. Overall Assessment

Qualifications were applied.

The PAH data are acceptable for use based on the information received.

CYANIDE BY SW-846 METHODS 9012

1. Samples

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID 12080997	Matrix	Date Collected	Date Analyzed
SB10 6-8 082812	001 A/B	Soil	082812	9/1/12
TAR01 082812	002 A/B	Tar	082812	9/1/12
SB09 4-6 082812	003 A/B	Soil	082812	9/1/12
SB09 4-6 082812D	004 A/B	Soil	082812	9/1/12

Samples	Lab ID 12080997	Matrix	Date Collected	Date Analyzed
SB05 4-6 082112	005 A/B	Soil	082812	9/1/12
SB04 4-6 082812	006 A/B	Soil	082812	9/1/12
SB03 8-10 082812	007 A/B	Soil	082812	9/1/12
SB02 4-6 082812	008 A/B	Soil	082812	9/1/12
SB02 2-3 082812	009 A/B	Soil	082812	9/1/12
SB06 3-5 082912	010 A/B	Soil	082912	9/1/12
SB08 4-6 082912	011 A/B	Soil	082912	9/1/12
SB07 2-4 082912	012 A/B	Soil	082912	9/1/12
TAR01 -082912	013 A	Tar	082912	9/1/12

2. Holding Times

The samples were analyzed within the required holding time limit of 14day.

3. Blank Results

All blank results were non-detect.

4. LCS Results

The LCS recoveries were within the laboratory-established QC limits (90-110%) for target analytes.

5. MS and MSD Results

A MS/MSD was presented for sample 12080997-007. All recoveries were within required control limits.

6. Field Duplicate

A field duplicate pair was part of the sample set. The samples showed good overall correlation. No qualifications are required.

8. Overall Assessment

No qualifications were applied.

The cyanide data are acceptable for use based on the information received.

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012

Date Printed: September 12, 2012

Client: Weston Solutions
Lab Order: 12080997
Project: Springfield Iron, Springfield, IL
Lab ID: 12080997-001

Client Sample ID: SI-SB10 (6-8)-082812

Collection Date: 8/28/2012 12:05:00 PM

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					
Mercury	ND	0.023		mg/Kg-dry	1	9/6/2012
Metals by ICP/MS	SW6020 (SW3050B)					
Aluminum	9400	240		mg/Kg-dry	100	9/4/2012
Antimony	ND	2.4		mg/Kg-dry	10	9/4/2012
Arsenic	4.6	1.2		mg/Kg-dry	10	9/4/2012
Barium	110	1.2		mg/Kg-dry	10	9/4/2012
Beryllium	0.68	0.59		mg/Kg-dry	10	9/4/2012
Cadmium	ND	0.59		mg/Kg-dry	10	9/4/2012
Calcium	26000	71		mg/Kg-dry	10	9/4/2012
Chromium	16	1.2		mg/Kg-dry	10	9/4/2012
Cobalt	5.5	1.2		mg/Kg-dry	10	9/4/2012
Copper	14	2.9		mg/Kg-dry	10	9/4/2012
Iron	20000	350		mg/Kg-dry	100	9/4/2012
Lead	9.5	0.59		mg/Kg-dry	10	9/4/2012
Magnesium	16000	35		mg/Kg-dry	10	9/4/2012
Manganese	650	1.2		mg/Kg-dry	10	9/4/2012
Nickel	18	1.2		mg/Kg-dry	10	9/4/2012
Potassium	580	35		mg/Kg-dry	10	9/4/2012
Selenium	ND	1.2		mg/Kg-dry	10	9/4/2012
Silver	ND	1.2		mg/Kg-dry	10	9/4/2012
Sodium	170	71		mg/Kg-dry	10	9/4/2012
Thallium	ND	1.2		mg/Kg-dry	10	9/4/2012
Vanadium	25	1.2		mg/Kg-dry	10	9/4/2012
Zinc	32	5.9		mg/Kg-dry	10	9/4/2012
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)					
Acenaphthene	0.59	0.04		mg/Kg-dry	1	9/5/2012
Acenaphthylene	0.7	0.04		mg/Kg-dry	1	9/5/2012
Aniline	ND	0.41		mg/Kg-dry	1	9/5/2012
Anthracene	1.1	0.04		mg/Kg-dry	1	9/5/2012
Benz(a)anthracene	0.5	0.04		mg/Kg-dry	1	9/5/2012
Benzidine	ND	0.4		mg/Kg-dry	1	9/5/2012
Benzo(a)pyrene	0.31	0.04		mg/Kg-dry	1	9/5/2012
Benzo(b)fluoranthene	0.18	0.04		mg/Kg-dry	1	9/5/2012
Benzo(g,h,i)perylene	0.11	0.04		mg/Kg-dry	1	9/5/2012
Benzo(k)fluoranthene	0.29	0.04		mg/Kg-dry	1	9/5/2012
Benzoic acid	ND	1		mg/Kg-dry	1	9/5/2012
Benzyl alcohol	ND	0.21		mg/Kg-dry	1	9/5/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

STAT Analysis Corporation

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012

Date Printed: September 12, 2012

Client: Weston Solutions

Client Sample ID: SI-SB10 (6-8)-082812

Lab Order: 12080997

Collection Date: 8/28/2012 12:05:00 PM

Project: Springfield Iron, Springfield, IL

Matrix: Soil

Lab ID: 12080997-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)			Prep Date: 9/5/2012	Analyst: DM
Bis(2-chloroethoxy)methane	ND	0.21	mg/Kg-dry	1	9/5/2012
Bis(2-chloroethyl)ether	ND	0.21	mg/Kg-dry	1	9/5/2012
Bis(2-ethylhexyl)phthalate	ND	1	mg/Kg-dry	1	9/5/2012
4-Bromophenyl phenyl ether	ND	0.21	mg/Kg-dry	1	9/5/2012
Butyl benzyl phthalate	ND	0.21	mg/Kg-dry	1	9/5/2012
Carbazole	0.27	0.21	mg/Kg-dry	1	9/5/2012
4-Chloroaniline	ND	0.21	mg/Kg-dry	1	9/5/2012
4-Chloro-3-methylphenol	ND	0.4	mg/Kg-dry	1	9/5/2012
2-Choronaphthalene	ND	0.21	mg/Kg-dry	1	9/5/2012
2-Chlorophenol	ND	0.21	mg/Kg-dry	1	9/5/2012
4-Chlorophenyl phenyl ether	ND	0.21	mg/Kg-dry	1	9/5/2012
Chrysene	0.46	0.04	mg/Kg-dry	1	9/5/2012
Dibenz(a,h)anthracene	0.085	0.04	mg/Kg-dry	1	9/5/2012
Dibenzofuran	0.51	0.21	mg/Kg-dry	1	9/5/2012
1,2-Dichlorobenzene	ND	0.21	mg/Kg-dry	1	9/5/2012
1,3-Dichlorobenzene	ND	0.21	mg/Kg-dry	1	9/5/2012
1,4-Dichlorobenzene	ND	0.21	mg/Kg-dry	1	9/5/2012
3,3'-Dichlorobenzidine	ND	0.21	mg/Kg-dry	1	9/5/2012
2,4-Dichlorophenol	ND	0.21	mg/Kg-dry	1	9/5/2012
Diethyl phthalate	ND	0.21	mg/Kg-dry	1	9/5/2012
2,4-Dimethylphenol	0.91	0.21	mg/Kg-dry	1	9/5/2012
Dimethyl phthalate	ND	0.21	mg/Kg-dry	1	9/5/2012
4,6-Dinitro-2-methylphenol	ND	0.4	mg/Kg-dry	1	9/5/2012
2,4-Dinitrophenol	ND	1	mg/Kg-dry	1	9/5/2012
2,4-Dinitrotoluene	ND	0.04	mg/Kg-dry	1	9/5/2012
2,6-Dinitrotoluene	ND	0.04	mg/Kg-dry	1	9/5/2012
Di-n-butyl phthalate	ND	0.21	mg/Kg-dry	1	9/5/2012
Di-n-octyl phthalate	ND	0.21	mg/Kg-dry	1	9/5/2012
Fluoranthene	1.2	0.04	mg/Kg-dry	1	9/5/2012
Fluorene	1.7	0.04	mg/Kg-dry	1	9/5/2012
Hexachlorobenzene	ND	0.21	mg/Kg-dry	1	9/5/2012
Hexachlorobutadiene	ND	0.21	mg/Kg-dry	1	9/5/2012
Hexachlorocyclopentadiene	ND	0.21	mg/Kg-dry	1	9/5/2012
Hexachloroethane	ND	0.21	mg/Kg-dry	1	9/5/2012
Indeno(1,2,3-cd)pyrene	0.13	0.04	mg/Kg-dry	1	9/5/2012
Isophorone	ND	0.21	mg/Kg-dry	1	9/5/2012
2-Methylnaphthalene	0.78	0.21	mg/Kg-dry	1	9/5/2012
2-Methylphenol	0.46	0.21	mg/Kg-dry	1	9/5/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

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B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

STAT Analysis Corporation

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012**Date Printed:** September 12, 2012

Client: Weston Solutions
Lab Order: 12080997
Project: Springfield Iron, Springfield, IL
Lab ID: 12080997-001

Client Sample ID: SI-SB10 (6-8)-082812**Collection Date:** 8/28/2012 12:05:00 PM**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS **SW8270C (SW3550B)** Prep Date: **9/5/2012** Analyst: **DM**

4-Methylphenol	2.1	0.21	mg/Kg-dry	1	9/5/2012
Naphthalene	1.1	0.04	mg/Kg-dry	1	9/5/2012
2-Nitroaniline	ND	0.21	mg/Kg-dry	1	9/5/2012
3-Nitroaniline	ND	0.21	mg/Kg-dry	1	9/5/2012
4-Nitroaniline	ND	0.21	mg/Kg-dry	1	9/5/2012
2-Nitrophenol	ND	0.21	mg/Kg-dry	1	9/5/2012
4-Nitrophenol	ND	0.4	mg/Kg-dry	1	9/5/2012
Nitrobenzene	ND	0.04	mg/Kg-dry	1	9/5/2012
N-Nitrosodi-n-propylamine	ND	0.04	mg/Kg-dry	1	9/5/2012
N-Nitrosodimethylamine	ND	0.21	mg/Kg-dry	1	9/5/2012
N-Nitrosodiphenylamine	ND	0.04	mg/Kg-dry	1	9/5/2012
2, 2'-oxybis(1-Chloropropane)	ND	0.21	mg/Kg-dry	1	9/5/2012
Pentachlorophenol	ND	0.04	mg/Kg-dry	1	9/5/2012
Phenanthrene	3.7	0.04	mg/Kg-dry	1	9/5/2012
Phenol	0.75	0.21	mg/Kg-dry	1	9/5/2012
Pyrene	1	0.04	mg/Kg-dry	1	9/5/2012
Pyridine	ND	0.82	mg/Kg-dry	1	9/5/2012
1,2,4-Trichlorobenzene	ND	0.21	mg/Kg-dry	1	9/5/2012
2,4,5-Trichlorophenol	ND	0.21	mg/Kg-dry	1	9/5/2012
2,4,6-Trichlorophenol	ND	0.21	mg/Kg-dry	1	9/5/2012

Volatile Organic Compounds by GC/MS **SW5035/8260B** Prep Date: **8/30/2012** Analyst: **PS**

Acetone	ND	0.076	mg/Kg-dry	1	9/5/2012
Benzene	ND	0.0051	mg/Kg-dry	1	9/5/2012
Bromodichloromethane	ND	0.0051	mg/Kg-dry	1	9/5/2012
Bromoform	ND	0.0051	mg/Kg-dry	1	9/5/2012
Bromomethane	ND	0.01	mg/Kg-dry	1	9/5/2012
2-Butanone	ND	0.076	mg/Kg-dry	1	9/5/2012
Carbon disulfide	ND	0.051	mg/Kg-dry	1	9/5/2012
Carbon tetrachloride	ND	0.0051	mg/Kg-dry	1	9/5/2012
Chlorobenzene	ND	0.0051	mg/Kg-dry	1	9/5/2012
Chlorethane	ND	0.01	mg/Kg-dry	1	9/5/2012
Chloroform	ND	0.0051	mg/Kg-dry	1	9/5/2012
Chloromethane	ND	0.01	mg/Kg-dry	1	9/5/2012
Dibromochloromethane	ND	0.0051	mg/Kg-dry	1	9/5/2012
1,1-Dichloroethane	ND	0.0051	mg/Kg-dry	1	9/5/2012
1,2-Dichloroethane	ND	0.0051	mg/Kg-dry	1	9/5/2012
1,1-Dichloroethene	ND	0.0051	mg/Kg-dry	1	9/5/2012
cis-1,2-Dichloroethene	ND	0.0051	mg/Kg-dry	1	9/5/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

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R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012**Date Printed:** September 12, 2012

Client: Weston Solutions
Lab Order: 12080997
Project: Springfield Iron, Springfield, IL
Lab ID: 12080997-001

Client Sample ID: SI-SB10 (6-8)-082812**Collection Date:** 8/28/2012 12:05:00 PM**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW5035/8260B			Prep Date: 8/30/2012		Analyst: PS
trans-1,2-Dichloroethene	ND	0.0051		mg/Kg-dry	1	9/5/2012
1,2-Dichloropropane	ND	0.0051		mg/Kg-dry	1	9/5/2012
cis-1,3-Dichloropropene	ND	0.002		mg/Kg-dry	1	9/5/2012
trans-1,3-Dichloropropene	ND	0.002		mg/Kg-dry	1	9/5/2012
Ethylbenzene	ND	0.0051		mg/Kg-dry	1	9/5/2012
2-Hexanone	ND	0.02		mg/Kg-dry	1	9/5/2012
4-Methyl-2-pentanone	ND	0.02		mg/Kg-dry	1	9/5/2012
Methylene chloride	ND	0.01		mg/Kg-dry	1	9/5/2012
Methyl tert-butyl ether	ND	0.0051		mg/Kg-dry	1	9/5/2012
Styrene	ND	0.0051		mg/Kg-dry	1	9/5/2012
1,1,2,2-Tetrachloroethane	ND	0.0051		mg/Kg-dry	1	9/5/2012
Tetrachloroethene	ND	0.0051		mg/Kg-dry	1	9/5/2012
Toluene	0.011	0.0051		mg/Kg-dry	1	9/5/2012
1,1,1-Trichloroethane	ND	0.0051		mg/Kg-dry	1	9/5/2012
1,1,2-Trichloroethane	ND	0.0051		mg/Kg-dry	1	9/5/2012
Trichloroethene	ND	0.0051		mg/Kg-dry	1	9/5/2012
Vinyl chloride	ND	0.0051		mg/Kg-dry	1	9/5/2012
Xylenes, Total	ND	0.015		mg/Kg-dry	1	9/5/2012
Cyanide, Total	SW9012A			Prep Date: 9/1/2012		Analyst: YZ
Cyanide	ND	0.31		mg/Kg-dry	1	9/1/2012
pH (25 °C)	SW9045C			Prep Date: 8/30/2012		Analyst: MNG
pH	7.4			pH Units	1	8/30/2012
Percent Moisture	D2974			Prep Date: 9/1/2012		Analyst: PBG
Percent Moisture	19.1	0.2	*	wt%	1	9/4/2012

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E - Value above quantitation range

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H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012

Date Printed: September 12, 2012

Client: Weston Solutions
Lab Order: 12080997
Project: Springfield Iron, Springfield, IL
Lab ID: 12080997-002

Client Sample ID: SI-TAR01-082812

Collection Date: 8/28/2012 12:20:00 PM

Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					
Mercury	ND	0.02		mg/Kg-dry	1	9/6/2012
Metals by ICP/MS	SW6020 (SW3050B)					
Aluminum	ND	370		mg/Kg-dry	100	9/4/2012
Antimony	ND	3.7		mg/Kg-dry	10	9/4/2012
Arsenic	16	1.9		mg/Kg-dry	10	9/4/2012
Barium	3	1.9		mg/Kg-dry	10	9/4/2012
Beryllium	ND	0.93		mg/Kg-dry	10	9/4/2012
Cadmium	5	0.93		mg/Kg-dry	10	9/4/2012
Calcium	590	110		mg/Kg-dry	10	9/4/2012
Chromium	ND	1.9		mg/Kg-dry	10	9/4/2012
Cobalt	ND	1.9		mg/Kg-dry	10	9/4/2012
Copper	ND	4.6		mg/Kg-dry	10	9/4/2012
Iron	1300	560		mg/Kg-dry	100	9/4/2012
Lead	19	0.93		mg/Kg-dry	10	9/4/2012
Magnesium	110	56		mg/Kg-dry	10	9/4/2012
Manganese	6.8	1.9		mg/Kg-dry	10	9/4/2012
Nickel	ND	1.9		mg/Kg-dry	10	9/4/2012
Potassium	130	56		mg/Kg-dry	10	9/4/2012
Selenium	7.5	1.9		mg/Kg-dry	10	9/4/2012
Silver	ND	1.9		mg/Kg-dry	10	9/4/2012
Sodium	120	110		mg/Kg-dry	10	9/4/2012
Thallium	7.2	1.9		mg/Kg-dry	10	9/4/2012
Vanadium	ND	1.9		mg/Kg-dry	10	9/4/2012
Zinc	400	9.3		mg/Kg-dry	10	9/4/2012
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)					
Acenaphthene	560	35		mg/Kg-dry	10	9/6/2012
Acenaphthylene	2900	35		mg/Kg-dry	10	9/6/2012
Aniline	ND	35		mg/Kg-dry	1	9/6/2012
Anthracene	2400	35		mg/Kg-dry	10	9/6/2012
Benz(a)anthracene	1200	35		mg/Kg-dry	10	9/6/2012
Benzidine	ND	35		mg/Kg-dry	1	9/6/2012
Benzo(a)pyrene	720	35		mg/Kg-dry	10	9/6/2012
Benzo(b)fluoranthene	500	35		mg/Kg-dry	10	9/6/2012
Benzo(g,h,i)perylene	270	3.5		mg/Kg-dry	1	9/6/2012
Benzo(k)fluoranthene	610	35		mg/Kg-dry	10	9/6/2012
Benzoic acid	ND	88		mg/Kg-dry	1	9/6/2012
Benzyl alcohol	ND	18		mg/Kg-dry	1	9/6/2012

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012**Date Printed:** September 12, 2012

Client: Weston Solutions
Lab Order: 12080997
Project: Springfield Iron, Springfield, IL
Lab ID: 12080997-002

Client Sample ID: SI-TAR01-082812**Collection Date:** 8/28/2012 12:20:00 PM**Matrix:** Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS						
Bis(2-chloroethoxy)methane	ND	18		mg/Kg-dry	1	9/6/2012
Bis(2-chloroethyl)ether	ND	18		mg/Kg-dry	1	9/6/2012
Bis(2-ethylhexyl)phthalate	ND	88		mg/Kg-dry	1	9/6/2012
4-Bromophenyl phenyl ether	ND	18		mg/Kg-dry	1	9/6/2012
Butyl benzyl phthalate	ND	18		mg/Kg-dry	1	9/6/2012
Carbazole	610	180		mg/Kg-dry	10	9/6/2012
4-Chloroaniline	ND	18		mg/Kg-dry	1	9/6/2012
4-Chloro-3-methylphenol	ND	35		mg/Kg-dry	1	9/6/2012
2-Chloronaphthalene	ND	18		mg/Kg-dry	1	9/6/2012
2-Chlorophenol	ND	18		mg/Kg-dry	1	9/6/2012
4-Chlorophenyl phenyl ether	ND	18		mg/Kg-dry	1	9/6/2012
Chrysene	1200	35		mg/Kg-dry	10	9/6/2012
Dibenz(a,h)anthracene	220	3.5		mg/Kg-dry	1	9/6/2012
Dibenzofuran	1600	180		mg/Kg-dry	10	9/6/2012
1,2-Dichlorobenzene	ND	18		mg/Kg-dry	1	9/6/2012
1,3-Dichlorobenzene	ND	18		mg/Kg-dry	1	9/6/2012
1,4-Dichlorobenzene	ND	18		mg/Kg-dry	1	9/6/2012
3,3'-Dichlorobenzidine	ND	18		mg/Kg-dry	1	9/6/2012
2,4-Dichlorophenol	ND	18		mg/Kg-dry	1	9/6/2012
Diethyl phthalate	ND	18		mg/Kg-dry	1	9/6/2012
2,4-Dimethylphenol	4000	180		mg/Kg-dry	10	9/6/2012
Dimethyl phthalate	ND	18		mg/Kg-dry	1	9/6/2012
4,6-Dinitro-2-methylphenol	ND	35		mg/Kg-dry	1	9/6/2012
2,4-Dinitrophenol	ND	88		mg/Kg-dry	1	9/6/2012
2,4-Dinitrotoluene	ND	3.5		mg/Kg-dry	1	9/6/2012
2,6-Dinitrotoluene	ND	3.5		mg/Kg-dry	1	9/6/2012
Di-n-butyl phthalate	ND	18		mg/Kg-dry	1	9/6/2012
Di-n-octyl phthalate	ND	18		mg/Kg-dry	1	9/6/2012
Fluoranthene	2900	35		mg/Kg-dry	10	9/6/2012
Fluorene	2600	35		mg/Kg-dry	10	9/6/2012
Hexachlorobenzene	ND	18		mg/Kg-dry	1	9/6/2012
Hexachlorobutadiene	ND	18		mg/Kg-dry	1	9/6/2012
Hexachlorocyclopentadiene	ND	18		mg/Kg-dry	1	9/6/2012
Hexachloroethane	ND	18		mg/Kg-dry	1	9/6/2012
Indeno(1,2,3-cd)pyrene	330	3.5		mg/Kg-dry	1	9/6/2012
Isophorone	ND	18		mg/Kg-dry	1	9/6/2012
2-Methylnaphthalene	3400	180		mg/Kg-dry	10	9/6/2012
2-Methylphenol	1900	180		mg/Kg-dry	10	9/6/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

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R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012

Date Printed: September 12, 2012

Client:	Weston Solutions	Client Sample ID:	SI-TAR01-082812
Lab Order:	12080997	Collection Date:	8/28/2012 12:20:00 PM
Project:	Springfield Iron, Springfield, IL	Matrix:	Solid
Lab ID:	12080997-002		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)	Prep Date:	9/5/2012	Analyst:	DM
4-Methylphenol	8400	360	mg/Kg-dry	20		9/6/2012
Naphthalene	5000	70	mg/Kg-dry	20		9/6/2012
2-Nitroaniline	ND	18	mg/Kg-dry	1		9/6/2012
3-Nitroaniline	ND	18	mg/Kg-dry	1		9/6/2012
4-Nitroaniline	ND	18	mg/Kg-dry	1		9/6/2012
2-Nitrophenol	ND	18	mg/Kg-dry	1		9/6/2012
4-Nitrophenol	ND	35	mg/Kg-dry	1		9/6/2012
Nitrobenzene	ND	3.5	mg/Kg-dry	1		9/6/2012
N-Nitrosodi-n-propylamine	ND	3.5	mg/Kg-dry	1		9/6/2012
N-Nitrosodimethylamine	ND	18	mg/Kg-dry	1		9/6/2012
N-Nitrosodiphenylamine	ND	3.5	mg/Kg-dry	1		9/6/2012
2, 2'-oxybis(1-Chloropropane)	ND	18	mg/Kg-dry	1		9/6/2012
Pentachlorophenol	ND	3.5	mg/Kg-dry	1		9/6/2012
Phenanthrene	6400	70	mg/Kg-dry	20		9/6/2012
Phenol	2500	180	mg/Kg-dry	10		9/6/2012
Pyrene	2500	35	mg/Kg-dry	10		9/6/2012
Pyridine	80	71	mg/Kg-dry	1		9/6/2012
1,2,4-Trichlorobenzene	ND	18	mg/Kg-dry	1		9/6/2012
2,4,5-Trichlorophenol	ND	18	mg/Kg-dry	1		9/6/2012
2,4,6-Trichlorophenol	ND	18	mg/Kg-dry	1		9/6/2012

Volatile Organic Compounds by GC/MS		SW8260B	Prep Date:	8/31/2012	Analyst:	ART
Acetone	ND	47	mg/Kg-dry	200		9/6/2012
Benzene	41	3.1	mg/Kg-dry	200		9/6/2012
Bromodichloromethane	ND	3.1	mg/Kg-dry	200		9/6/2012
Bromoform	ND	3.1	mg/Kg-dry	200		9/6/2012
Bromomethane	ND	6.2	mg/Kg-dry	200		9/6/2012
2-Butanone	ND	47	mg/Kg-dry	200		9/6/2012
Carbon disulfide	ND	31	mg/Kg-dry	200		9/6/2012
Carbon tetrachloride	ND	3.1	mg/Kg-dry	200		9/6/2012
Chlorobenzene	ND	3.1	mg/Kg-dry	200		9/6/2012
Chlorethane	ND	6.2	mg/Kg-dry	200		9/6/2012
Chloroform	ND	3.1	mg/Kg-dry	200		9/6/2012
Chloromethane	ND	6.2	mg/Kg-dry	200		9/6/2012
Dibromochloromethane	ND	3.1	mg/Kg-dry	200		9/6/2012
1,1-Dichloroethane	ND	3.1	mg/Kg-dry	200		9/6/2012
1,2-Dichloroethane	ND	3.1	mg/Kg-dry	200		9/6/2012
1,1-Dichloroethene	ND	3.1	mg/Kg-dry	200		9/6/2012
cis-1,2-Dichloroethene	ND	3.1	mg/Kg-dry	200		9/6/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012**Date Printed:** September 12, 2012

Client: Weston Solutions
Lab Order: 12080997
Project: Springfield Iron, Springfield, IL
Lab ID: 12080997-002

Client Sample ID: SI-TAR01-082812**Collection Date:** 8/28/2012 12:20:00 PM**Matrix:** Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS						
	SW8260B				Prep Date: 8/31/2012	Analyst: ART
trans-1,2-Dichloroethene	ND	3.1		mg/Kg-dry	200	9/6/2012
1,2-Dichloropropane	ND	3.1		mg/Kg-dry	200	9/6/2012
cis-1,3-Dichloropropene	ND	1.2		mg/Kg-dry	200	9/6/2012
trans-1,3-Dichloropropene	ND	1.2		mg/Kg-dry	200	9/6/2012
Ethylbenzene	13	3.1		mg/Kg-dry	200	9/6/2012
2-Hexanone	ND	12		mg/Kg-dry	200	9/6/2012
4-Methyl-2-pentanone	ND	12		mg/Kg-dry	200	9/6/2012
Methylene chloride	ND	6.2		mg/Kg-dry	200	9/6/2012
Methyl tert-butyl ether	ND	3.1		mg/Kg-dry	200	9/6/2012
Styrene	ND	3.1		mg/Kg-dry	200	9/6/2012
1,1,2,2-Tetrachloroethane	ND	3.1		mg/Kg-dry	200	9/6/2012
Tetrachloroethene	ND	3.1		mg/Kg-dry	200	9/6/2012
Toluene	84	3.1		mg/Kg-dry	200	9/6/2012
1,1,1-Trichloroethane	ND	3.1		mg/Kg-dry	200	9/6/2012
1,1,2-Trichloroethane	ND	3.1		mg/Kg-dry	200	9/6/2012
Trichloroethene	ND	3.1		mg/Kg-dry	200	9/6/2012
Vinyl chloride	ND	3.1		mg/Kg-dry	200	9/6/2012
Xylenes, Total	160	9.3		mg/Kg-dry	200	9/6/2012
Cyanide, Total						
Cyanide		SW9012A			Prep Date: 9/1/2012	Analyst: YZ
	ND	0.43		mg/Kg-dry	1	9/1/2012
pH (25 °C)						
pH		SW9045C			Prep Date: 8/30/2012	Analyst: MNG
	6.0			pH Units	1	8/30/2012
Percent Moisture						
Percent Moisture		D2974			Prep Date: 9/1/2012	Analyst: PBG
	2.1	0.2	*	wt%	1	9/4/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

STAT Analysis Corporation

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012**Date Printed:** September 12, 2012

Client: Weston Solutions
Lab Order: 12080997
Project: Springfield Iron, Springfield, IL
Lab ID: 12080997-003

Client Sample ID: SI-SB09(4-6)-082812
Collection Date: 8/28/2012 1:00:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury						
Mercury	0.033	0.023		mg/Kg-dry	1	9/6/2012
Metals by ICP/MS						
	SW7471A					
Aluminum	18000	200		mg/Kg-dry	100	9/4/2012
Antimony	ND	2		mg/Kg-dry	10	9/4/2012
Arsenic	12	1		mg/Kg-dry	10	9/4/2012
Barium	220	1		mg/Kg-dry	10	9/4/2012
Beryllium	0.93	0.51		mg/Kg-dry	10	9/4/2012
Cadmium	ND	0.51		mg/Kg-dry	10	9/4/2012
Calcium	12000	61		mg/Kg-dry	10	9/4/2012
Chromium	18	1		mg/Kg-dry	10	9/4/2012
Cobalt	12	1		mg/Kg-dry	10	9/4/2012
Copper	20	2.5		mg/Kg-dry	10	9/4/2012
Iron	31000	300		mg/Kg-dry	100	9/4/2012
Lead	21	0.51		mg/Kg-dry	10	9/4/2012
Magnesium	8800	30		mg/Kg-dry	10	9/4/2012
Manganese	930	1		mg/Kg-dry	10	9/4/2012
Nickel	28	1		mg/Kg-dry	10	9/4/2012
Potassium	750	30		mg/Kg-dry	10	9/4/2012
Selenium	ND	1		mg/Kg-dry	10	9/4/2012
Silver	ND	1		mg/Kg-dry	10	9/4/2012
Sodium	100	61		mg/Kg-dry	10	9/4/2012
Thallium	ND	1		mg/Kg-dry	10	9/4/2012
Vanadium	33	1		mg/Kg-dry	10	9/4/2012
Zinc	57	5.1		mg/Kg-dry	10	9/4/2012
Semivolatile Organic Compounds by GC/MS						
	SW8270C (SW3550B)					
Acenaphthene	ND	0.039		mg/Kg-dry	1	9/5/2012
Acenaphthylene	ND	0.039		mg/Kg-dry	1	9/5/2012
Aniline	ND	0.4		mg/Kg-dry	1	9/5/2012
Anthracene	ND	0.039		mg/Kg-dry	1	9/5/2012
Benz(a)anthracene	ND	0.039		mg/Kg-dry	1	9/5/2012
Benzidine	ND	0.39		mg/Kg-dry	1	9/5/2012
Benzo(a)pyrene	ND	0.039		mg/Kg-dry	1	9/5/2012
Benzo(b)fluoranthene	ND	0.039		mg/Kg-dry	1	9/5/2012
Benzo(g,h,i)perylene	ND	0.039		mg/Kg-dry	1	9/5/2012
Benzo(k)fluoranthene	ND	0.039		mg/Kg-dry	1	9/5/2012
Benzoic acid	ND	0.99		mg/Kg-dry	1	9/5/2012
Benzyl alcohol	ND	0.2		mg/Kg-dry	1	9/5/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012

Date Printed: September 12, 2012

Client: Weston Solutions
Lab Order: 12080997
Project: Springfield Iron, Springfield, IL
Lab ID: 12080997-003

Client Sample ID: SI-SB09(4-6)-082812

Collection Date: 8/28/2012 1:00:00 PM

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS						
Bis(2-chloroethoxy)methane	ND	0.2		mg/Kg-dry	1	9/5/2012
Bis(2-chloroethyl)ether	ND	0.2		mg/Kg-dry	1	9/5/2012
Bis(2-ethylhexyl)phthalate	ND	0.99		mg/Kg-dry	1	9/5/2012
4-Bromophenyl phenyl ether	ND	0.2		mg/Kg-dry	1	9/5/2012
Butyl benzyl phthalate	ND	0.2		mg/Kg-dry	1	9/5/2012
Carbazole	ND	0.2		mg/Kg-dry	1	9/5/2012
4-Chloroaniline	ND	0.2		mg/Kg-dry	1	9/5/2012
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	9/5/2012
2-Chloronaphthalene	ND	0.2		mg/Kg-dry	1	9/5/2012
2-Chlorophenol	ND	0.2		mg/Kg-dry	1	9/5/2012
4-Chlorophenyl phenyl ether	ND	0.2		mg/Kg-dry	1	9/5/2012
Chrysene	ND	0.039		mg/Kg-dry	1	9/5/2012
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	9/5/2012
Dibenzofuran	ND	0.2		mg/Kg-dry	1	9/5/2012
1,2-Dichlorobenzene	ND	0.2		mg/Kg-dry	1	9/5/2012
1,3-Dichlorobenzene	ND	0.2		mg/Kg-dry	1	9/5/2012
1,4-Dichlorobenzene	ND	0.2		mg/Kg-dry	1	9/5/2012
3,3'-Dichlorobenzidine	ND	0.2		mg/Kg-dry	1	9/5/2012
2,4-Dichlorophenol	ND	0.2		mg/Kg-dry	1	9/5/2012
Diethyl phthalate	ND	0.2		mg/Kg-dry	1	9/5/2012
2,4-Dimethylphenol	ND	0.2		mg/Kg-dry	1	9/5/2012
Dimethyl phthalate	ND	0.2		mg/Kg-dry	1	9/5/2012
4,6-Dinitro-2-methylphenol	ND	0.39		mg/Kg-dry	1	9/5/2012
2,4-Dinitrophenol	ND	0.99		mg/Kg-dry	1	9/5/2012
2,4-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	9/5/2012
2,6-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	9/5/2012
Di-n-butyl phthalate	ND	0.2		mg/Kg-dry	1	9/5/2012
Di-n-octyl phthalate	ND	0.2		mg/Kg-dry	1	9/5/2012
Fluoranthene	ND	0.039		mg/Kg-dry	1	9/5/2012
Fluorene	ND	0.039		mg/Kg-dry	1	9/5/2012
Hexachlorobenzene	ND	0.2		mg/Kg-dry	1	9/5/2012
Hexachlorobutadiene	ND	0.2		mg/Kg-dry	1	9/5/2012
Hexachlorocyclopentadiene	ND	0.2		mg/Kg-dry	1	9/5/2012
Hexachloroethane	ND	0.2		mg/Kg-dry	1	9/5/2012
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	9/5/2012
Isophorone	ND	0.2		mg/Kg-dry	1	9/5/2012
2-Methylnaphthalene	ND	0.2		mg/Kg-dry	1	9/5/2012
2-Methylphenol	ND	0.2		mg/Kg-dry	1	9/5/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012

Date Printed: September 12, 2012

Client:	Weston Solutions	Client Sample ID:	SI-SB09(4-6)-082812
Lab Order:	12080997	Collection Date:	8/28/2012 1:00:00 PM
Project:	Springfield Iron, Springfield, IL	Matrix:	Soil
Lab ID:	12080997-003		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)	Prep Date: 9/5/2012	Analyst: DM		
4-Methylphenol	ND	0.2	mg/Kg-dry	1	9/5/2012
Naphthalene	ND	0.039	mg/Kg-dry	1	9/5/2012
2-Nitroaniline	ND	0.2	mg/Kg-dry	1	9/5/2012
3-Nitroaniline	ND	0.2	mg/Kg-dry	1	9/5/2012
4-Nitroaniline	ND	0.2	mg/Kg-dry	1	9/5/2012
2-Nitrophenol	ND	0.2	mg/Kg-dry	1	9/5/2012
4-Nitrophenol	ND	0.39	mg/Kg-dry	1	9/5/2012
Nitrobenzene	ND	0.039	mg/Kg-dry	1	9/5/2012
N-Nitrosodi-n-propylamine	ND	0.039	mg/Kg-dry	1	9/5/2012
N-Nitrosodimethylamine	ND	0.2	mg/Kg-dry	1	9/5/2012
N-Nitrosodiphenylamine	ND	0.039	mg/Kg-dry	1	9/5/2012
2, 2'-oxybis(1-Chloropropane)	ND	0.2	mg/Kg-dry	1	9/5/2012
Pentachlorophenol	ND	0.039	mg/Kg-dry	1	9/5/2012
Phenanthrene	ND	0.039	mg/Kg-dry	1	9/5/2012
Phenol	ND	0.2	mg/Kg-dry	1	9/5/2012
Pyrene	ND	0.039	mg/Kg-dry	1	9/5/2012
Pyridine	ND	0.8	mg/Kg-dry	1	9/5/2012
1,2,4-Trichlorobenzene	ND	0.2	mg/Kg-dry	1	9/5/2012
2,4,5-Trichlorophenol	ND	0.2	mg/Kg-dry	1	9/5/2012
2,4,6-Trichlorophenol	ND	0.2	mg/Kg-dry	1	9/5/2012

Volatile Organic Compounds by GC/MS	SW5035/8260B	Prep Date: 8/31/2012	Analyst: PS		
Acetone	ND	0.069	mg/Kg-dry	1	9/5/2012
Benzene	ND	0.0046	mg/Kg-dry	1	9/5/2012
Bromodichloromethane	ND	0.0046	mg/Kg-dry	1	9/5/2012
Bromoform	ND	0.0046	mg/Kg-dry	1	9/5/2012
Bromomethane	ND	0.0092	mg/Kg-dry	1	9/5/2012
2-Butanone	ND	0.069	mg/Kg-dry	1	9/5/2012
Carbon disulfide	ND	0.046	mg/Kg-dry	1	9/5/2012
Carbon tetrachloride	ND	0.0046	mg/Kg-dry	1	9/5/2012
Chlorobenzene	ND	0.0046	mg/Kg-dry	1	9/5/2012
Chloroethane	ND	0.0092	mg/Kg-dry	1	9/5/2012
Chloroform	ND	0.0046	mg/Kg-dry	1	9/5/2012
Chloromethane	ND	0.0092	mg/Kg-dry	1	9/5/2012
Dibromochloromethane	ND	0.0046	mg/Kg-dry	1	9/5/2012
1,1-Dichloroethane	ND	0.0046	mg/Kg-dry	1	9/5/2012
1,2-Dichloroethane	ND	0.0046	mg/Kg-dry	1	9/5/2012
1,1-Dichloroethene	ND	0.0046	mg/Kg-dry	1	9/5/2012
cis-1,2-Dichloroethene	ND	0.0046	mg/Kg-dry	1	9/5/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

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R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

STAT Analysis Corporation

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012**Date Printed:** September 12, 2012

Client: Weston Solutions
Lab Order: 12080997
Project: Springfield Iron, Springfield, IL
Lab ID: 12080997-003

Client Sample ID: SI-SB09(4-6)-082812
Collection Date: 8/28/2012 1:00:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS						
trans-1,2-Dichloroethene	ND	0.0046		mg/Kg-dry	1	9/5/2012
1,2-Dichloropropane	ND	0.0046		mg/Kg-dry	1	9/5/2012
cis-1,3-Dichloropropene	ND	0.0018		mg/Kg-dry	1	9/5/2012
trans-1,3-Dichloropropene	ND	0.0018		mg/Kg-dry	1	9/5/2012
Ethylbenzene	ND	0.0046		mg/Kg-dry	1	9/5/2012
2-Hexanone	ND	0.018		mg/Kg-dry	1	9/5/2012
4-Methyl-2-pentanone	ND	0.018		mg/Kg-dry	1	9/5/2012
Methylene chloride	ND	0.0092		mg/Kg-dry	1	9/5/2012
Methyl tert-butyl ether	ND	0.0046		mg/Kg-dry	1	9/5/2012
Styrene	ND	0.0046		mg/Kg-dry	1	9/5/2012
1,1,2,2-Tetrachloroethane	ND	0.0046		mg/Kg-dry	1	9/5/2012
Tetrachloroethene	ND	0.0046		mg/Kg-dry	1	9/5/2012
Toluene	ND	0.0046		mg/Kg-dry	1	9/5/2012
1,1,1-Trichloroethane	ND	0.0046		mg/Kg-dry	1	9/5/2012
1,1,2-Trichloroethane	ND	0.0046		mg/Kg-dry	1	9/5/2012
Trichloroethene	ND	0.0046		mg/Kg-dry	1	9/5/2012
Vinyl chloride	ND	0.0046		mg/Kg-dry	1	9/5/2012
Xylenes, Total	ND	0.014		mg/Kg-dry	1	9/5/2012
Cyanide, Total						
Cyanide	0.77	0.3		mg/Kg-dry	1	9/1/2012
pH (25 °C)						
pH	6.7			pH Units	1	8/30/2012
Percent Moisture						
Percent Moisture	16.8	0.2	*	wt%	1	Analyst: PBG 9/4/2012
						Prep Date: 9/1/2012
						Analyst: YZ 9/1/2012
						Prep Date: 8/30/2012
						Analyst: MNG 8/30/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012

Date Printed: September 12, 2012

Client: Weston Solutions
Lab Order: 12080997
Project: Springfield Iron, Springfield, IL
Lab ID: 12080997-004

Client Sample ID: SI-SB09(4-6)-082812D
Collection Date: 8/28/2012 1:05:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury		SW7471A				
Mercury	0.035	0.021		mg/Kg-dry	1	9/6/2012
Metals by ICP/MS		SW6020 (SW3050B)				
Aluminum	19000	230		mg/Kg-dry	100	9/4/2012
Antimony	ND	2.3		mg/Kg-dry	10	9/4/2012
Arsenic	11	1.2		mg/Kg-dry	10	9/4/2012
Barium	240	1.2		mg/Kg-dry	10	9/4/2012
Beryllium	0.88	0.59		mg/Kg-dry	10	9/5/2012
Cadmium	ND	0.59		mg/Kg-dry	10	9/4/2012
Calcium	9500	70		mg/Kg-dry	10	9/4/2012
Chromium	23	1.2		mg/Kg-dry	10	9/4/2012
Cobalt	10	1.2		mg/Kg-dry	10	9/4/2012
Copper	23	2.9		mg/Kg-dry	10	9/4/2012
Iron	28000	350		mg/Kg-dry	100	9/4/2012
Lead	17	0.59		mg/Kg-dry	10	9/4/2012
Magnesium	7700	35		mg/Kg-dry	10	9/4/2012
Manganese	460	1.2		mg/Kg-dry	10	9/4/2012
Nickel	27	1.2		mg/Kg-dry	10	9/4/2012
Potassium	1000	35		mg/Kg-dry	10	9/4/2012
Selenium	ND	1.2		mg/Kg-dry	10	9/4/2012
Silver	ND	1.2		mg/Kg-dry	10	9/4/2012
Sodium	130	70		mg/Kg-dry	10	9/4/2012
Thallium	ND	1.2		mg/Kg-dry	10	9/4/2012
Vanadium	37	1.2		mg/Kg-dry	10	9/4/2012
Zinc	71	5.9		mg/Kg-dry	10	9/4/2012
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)				
Acenaphthene	ND	0.04		mg/Kg-dry	1	9/5/2012
Acenaphthylene	ND	0.04		mg/Kg-dry	1	9/5/2012
Aniline	ND	0.4		mg/Kg-dry	1	9/5/2012
Anthracene	ND	0.04		mg/Kg-dry	1	9/5/2012
Benz(a)anthracene	ND	0.04		mg/Kg-dry	1	9/5/2012
Benzidine	ND	0.4		mg/Kg-dry	1	9/5/2012
Benzo(a)pyrene	ND	0.04		mg/Kg-dry	1	9/5/2012
Benzo(b)fluoranthene	ND	0.04		mg/Kg-dry	1	9/5/2012
Benzo(g,h,i)perylene	ND	0.04		mg/Kg-dry	1	9/5/2012
Benzo(k)fluoranthene	ND	0.04		mg/Kg-dry	1	9/5/2012
Benzoic acid	ND	1		mg/Kg-dry	1	9/5/2012
Benzyl alcohol	ND	0.2		mg/Kg-dry	1	9/5/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012**Date Printed:** September 12, 2012

Client: Weston Solutions
Lab Order: 12080997
Project: Springfield Iron, Springfield, IL
Lab ID: 12080997-004

Client Sample ID: SI-SB09(4-6)-082812D
Collection Date: 8/28/2012 1:05:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS						
Bis(2-chloroethoxy)methane	ND	0.2		mg/Kg-dry	1	9/5/2012
Bis(2-chloroethyl)ether	ND	0.2		mg/Kg-dry	1	9/5/2012
Bis(2-ethylhexyl)phthalate	ND	1		mg/Kg-dry	1	9/5/2012
4-Bromophenyl phenyl ether	ND	0.2		mg/Kg-dry	1	9/5/2012
Butyl benzyl phthalate	ND	0.2		mg/Kg-dry	1	9/5/2012
Carbazole	ND	0.2		mg/Kg-dry	1	9/5/2012
4-Chloroaniline	ND	0.2		mg/Kg-dry	1	9/5/2012
4-Chloro-3-methylphenol	ND	0.4		mg/Kg-dry	1	9/5/2012
2-Chloronaphthalene	ND	0.2		mg/Kg-dry	1	9/5/2012
2-Chlorophenol	ND	0.2		mg/Kg-dry	1	9/5/2012
4-Chlorophenyl phenyl ether	ND	0.2		mg/Kg-dry	1	9/5/2012
Chrysene	ND	0.04		mg/Kg-dry	1	9/5/2012
Dibenz(a,h)anthracene	ND	0.04		mg/Kg-dry	1	9/5/2012
Dibenzofuran	ND	0.2		mg/Kg-dry	1	9/5/2012
1,2-Dichlorobenzene	ND	0.2		mg/Kg-dry	1	9/5/2012
1,3-Dichlorobenzene	ND	0.2		mg/Kg-dry	1	9/5/2012
1,4-Dichlorobenzene	ND	0.2		mg/Kg-dry	1	9/5/2012
3,3'-Dichlorobenzidine	ND	0.2		mg/Kg-dry	1	9/5/2012
2,4-Dichlorophenol	ND	0.2		mg/Kg-dry	1	9/5/2012
Diethyl phthalate	ND	0.2		mg/Kg-dry	1	9/5/2012
2,4-Dimethylphenol	ND	0.2		mg/Kg-dry	1	9/5/2012
Dimethyl phthalate	ND	0.2		mg/Kg-dry	1	9/5/2012
4,6-Dinitro-2-methylphenol	ND	0.4		mg/Kg-dry	1	9/5/2012
2,4-Dinitrophenol	ND	1		mg/Kg-dry	1	9/5/2012
2,4-Dinitrotoluene	ND	0.04		mg/Kg-dry	1	9/5/2012
2,6-Dinitrotoluene	ND	0.04		mg/Kg-dry	1	9/5/2012
Di-n-butyl phthalate	ND	0.2		mg/Kg-dry	1	9/5/2012
Di-n-octyl phthalate	ND	0.2		mg/Kg-dry	1	9/5/2012
Fluoranthene	ND	0.04		mg/Kg-dry	1	9/5/2012
Fluorene	ND	0.04		mg/Kg-dry	1	9/5/2012
Hexachlorobenzene	ND	0.2		mg/Kg-dry	1	9/5/2012
Hexachlorobutadiene	ND	0.2		mg/Kg-dry	1	9/5/2012
Hexachlorocyclopentadiene	ND	0.2		mg/Kg-dry	1	9/5/2012
Hexachloroethane	ND	0.2		mg/Kg-dry	1	9/5/2012
Indeno(1,2,3-cd)pyrene	ND	0.04		mg/Kg-dry	1	9/5/2012
Isophorone	ND	0.2		mg/Kg-dry	1	9/5/2012
2-Methylnaphthalene	ND	0.2		mg/Kg-dry	1	9/5/2012
2-Methylphenol	ND	0.2		mg/Kg-dry	1	9/5/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

STAT Analysis Corporation

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012

Date Printed: September 12, 2012

Client:	Weston Solutions	Client Sample ID:	SI-SB09(4-6)-082812D
Lab Order:	12080997	Collection Date:	8/28/2012 1:05:00 PM
Project:	Springfield Iron, Springfield, IL	Matrix:	Soil
Lab ID:	12080997-004		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 9/5/2012	Analyst: DM	
4-Methylphenol	ND	0.2	mg/Kg-dry	1	9/5/2012
Naphthalene	ND	0.04	mg/Kg-dry	1	9/5/2012
2-Nitroaniline	ND	0.2	mg/Kg-dry	1	9/5/2012
3-Nitroaniline	ND	0.2	mg/Kg-dry	1	9/5/2012
4-Nitroaniline	ND	0.2	mg/Kg-dry	1	9/5/2012
2-Nitrophenol	ND	0.2	mg/Kg-dry	1	9/5/2012
4-Nitrophenol	ND	0.4	mg/Kg-dry	1	9/5/2012
Nitrobenzene	ND	0.04	mg/Kg-dry	1	9/5/2012
N-Nitrosodi-n-propylamine	ND	0.04	mg/Kg-dry	1	9/5/2012
N-Nitrosodimethylamine	ND	0.2	mg/Kg-dry	1	9/5/2012
N-Nitrosodiphenylamine	ND	0.04	mg/Kg-dry	1	9/5/2012
2, 2'-oxybis(1-Chloropropane)	ND	0.2	mg/Kg-dry	1	9/5/2012
Pentachlorophenol	ND	0.04	mg/Kg-dry	1	9/5/2012
Phenanthrene	ND	0.04	mg/Kg-dry	1	9/5/2012
Phenol	ND	0.2	mg/Kg-dry	1	9/5/2012
Pyrene	ND	0.04	mg/Kg-dry	1	9/5/2012
Pyridine	ND	0.81	mg/Kg-dry	1	9/5/2012
1,2,4-Trichlorobenzene	ND	0.2	mg/Kg-dry	1	9/5/2012
2,4,5-Trichlorophenol	ND	0.2	mg/Kg-dry	1	9/5/2012
2,4,6-Trichlorophenol	ND	0.2	mg/Kg-dry	1	9/5/2012

Volatile Organic Compounds by GC/MS	SW5035/8260B		Prep Date: 8/31/2012	Analyst: PS	
Acetone	ND	0.074	mg/Kg-dry	1	9/5/2012
Benzene	ND	0.005	mg/Kg-dry	1	9/5/2012
Bromodichloromethane	ND	0.005	mg/Kg-dry	1	9/5/2012
Bromoform	ND	0.005	mg/Kg-dry	1	9/5/2012
Bromomethane	ND	0.0099	mg/Kg-dry	1	9/5/2012
2-Butanone	ND	0.074	mg/Kg-dry	1	9/5/2012
Carbon disulfide	ND	0.05	mg/Kg-dry	1	9/5/2012
Carbon tetrachloride	ND	0.005	mg/Kg-dry	1	9/5/2012
Chlorobenzene	ND	0.005	mg/Kg-dry	1	9/5/2012
Chlorethane	ND	0.0099	mg/Kg-dry	1	9/5/2012
Chloroform	ND	0.005	mg/Kg-dry	1	9/5/2012
Chloromethane	ND	0.0099	mg/Kg-dry	1	9/5/2012
Dibromochloromethane	ND	0.005	mg/Kg-dry	1	9/5/2012
1,1-Dichloroethane	ND	0.005	mg/Kg-dry	1	9/5/2012
1,2-Dichloroethane	ND	0.005	mg/Kg-dry	1	9/5/2012
1,1-Dichloroethene	ND	0.005	mg/Kg-dry	1	9/5/2012
cis-1,2-Dichloroethene	ND	0.005	mg/Kg-dry	1	9/5/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012**Date Printed:** September 12, 2012

Client:	Weston Solutions	Client Sample ID:	SI-SB09(4-6)-082812D
Lab Order:	12080997	Collection Date:	8/28/2012 1:05:00 PM
Project:	Springfield Iron, Springfield, IL	Matrix:	Soil
Lab ID:	12080997-004		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS						
trans-1,2-Dichloroethene	ND	0.005		mg/Kg-dry	1	9/5/2012
1,2-Dichloropropane	ND	0.005		mg/Kg-dry	1	9/5/2012
cis-1,3-Dichloropropene	ND	0.002		mg/Kg-dry	1	9/5/2012
trans-1,3-Dichloropropene	ND	0.002		mg/Kg-dry	1	9/5/2012
Ethylbenzene	ND	0.005		mg/Kg-dry	1	9/5/2012
2-Hexanone	ND	0.02		mg/Kg-dry	1	9/5/2012
4-Methyl-2-pentanone	ND	0.02		mg/Kg-dry	1	9/5/2012
Methylene chloride	ND	0.0099		mg/Kg-dry	1	9/5/2012
Methyl tert-butyl ether	ND	0.005		mg/Kg-dry	1	9/5/2012
Styrene	ND	0.005		mg/Kg-dry	1	9/5/2012
1,1,2,2-Tetrachloroethane	ND	0.005		mg/Kg-dry	1	9/5/2012
Tetrachloroethene	ND	0.005		mg/Kg-dry	1	9/5/2012
Toluene	ND	0.005		mg/Kg-dry	1	9/5/2012
1,1,1-Trichloroethane	ND	0.005		mg/Kg-dry	1	9/5/2012
1,1,2-Trichloroethane	ND	0.005		mg/Kg-dry	1	9/5/2012
Trichloroethene	ND	0.005		mg/Kg-dry	1	9/5/2012
Vinyl chloride	ND	0.005		mg/Kg-dry	1	9/5/2012
Xylenes, Total	ND	0.015		mg/Kg-dry	1	9/5/2012
Cyanide, Total						
Cyanide	ND	0.3		mg/Kg-dry	1	9/1/2012
pH (25 °C)						
pH	6.8			pH Units	1	8/30/2012
Percent Moisture						
Percent Moisture	17.0	0.2	*	wt%	1	Analyst: PBG 9/4/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

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R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012

Date Printed: September 12, 2012

Client: Weston Solutions
Lab Order: 12080997
Project: Springfield Iron, Springfield, IL
Lab ID: 12080997-005

Client Sample ID: SI-SB05(4-6)-082812

Collection Date: 8/28/2012 1:30:00 PM

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury			SW7471A			
Mercury	0.19	0.02		mg/Kg-dry	1	Analyst: JG 9/6/2012
Metals by ICP/MS			SW6020 (SW3050B)			
Aluminum	6300	220		mg/Kg-dry	100	9/4/2012
Antimony	2.6	2.2		mg/Kg-dry	10	9/4/2012
Arsenic	30	1.1		mg/Kg-dry	10	9/4/2012
Barium	140	1.1		mg/Kg-dry	10	9/4/2012
Beryllium	0.65	0.55		mg/Kg-dry	10	9/5/2012
Cadmium	3.9	0.55		mg/Kg-dry	10	9/4/2012
Calcium	6500	66		mg/Kg-dry	10	9/4/2012
Chromium	14	1.1		mg/Kg-dry	10	9/4/2012
Cobalt	5.7	1.1		mg/Kg-dry	10	9/4/2012
Copper	27	2.8		mg/Kg-dry	10	9/4/2012
Iron	40000	330		mg/Kg-dry	100	9/4/2012
Lead	850	0.55		mg/Kg-dry	10	9/4/2012
Magnesium	2400	33		mg/Kg-dry	10	9/4/2012
Manganese	370	1.1		mg/Kg-dry	10	9/4/2012
Nickel	14	1.1		mg/Kg-dry	10	9/4/2012
Potassium	820	33		mg/Kg-dry	10	9/4/2012
Selenium	3.4	1.1		mg/Kg-dry	10	9/4/2012
Silver	ND	1.1		mg/Kg-dry	10	9/4/2012
Sodium	460	66		mg/Kg-dry	10	9/4/2012
Thallium	4.4	1.1		mg/Kg-dry	10	9/4/2012
Vanadium	28	1.1		mg/Kg-dry	10	9/4/2012
Zinc	240	5.5		mg/Kg-dry	10	9/4/2012
Semivolatile Organic Compounds by GC/MS			SW8270C (SW3550B)			
Acenaphthene	130	3.4		mg/Kg-dry	1	Analyst: DM 9/5/2012
Acenaphthylene	360	17		mg/Kg-dry	5	9/6/2012
Aniline	ND	34		mg/Kg-dry	1	9/5/2012
Anthracene	610	17		mg/Kg-dry	5	9/6/2012
Benz(a)anthracene	450	17		mg/Kg-dry	5	9/6/2012
Benzidine	ND	34		mg/Kg-dry	1	9/5/2012
Benzo(a)pyrene	320	3.4		mg/Kg-dry	1	9/5/2012
Benzo(b)fluoranthene	250	3.4		mg/Kg-dry	1	9/5/2012
Benzo(g,h,i)perylene	110	3.4		mg/Kg-dry	1	9/5/2012
Benzo(k)fluoranthene	240	3.4		mg/Kg-dry	1	9/5/2012
Benzoic acid	ND	86		mg/Kg-dry	1	9/5/2012
Benzyl alcohol	ND	18		mg/Kg-dry	1	9/5/2012

ND - Not Detected at the Reporting Limit

Qualifiers: J - Analyte detected below quantitation limits

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S - Spike Recovery outside accepted recovery limits

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R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

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H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012

Date Printed: September 12, 2012

Client: Weston Solutions
Lab Order: 12080997
Project: Springfield Iron, Springfield, IL
Lab ID: 12080997-005

Client Sample ID: SI-SB05(4-6)-082812

Collection Date: 8/28/2012 1:30:00 PM

Matrix: Soil

Analyses		Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)			Prep Date: 9/5/2012		Analyst: DM
Bis(2-chloroethoxy)methane	ND	18		mg/Kg-dry	1		9/5/2012
Bis(2-chloroethyl)ether	ND	18		mg/Kg-dry	1		9/5/2012
Bis(2-ethylhexyl)phthalate	ND	86		mg/Kg-dry	1		9/5/2012
4-Bromophenyl phenyl ether	ND	18		mg/Kg-dry	1		9/5/2012
Butyl benzyl phthalate	ND	18		mg/Kg-dry	1		9/5/2012
Carbazole	180 J	18		mg/Kg-dry	1		9/5/2012
4-Chloroaniline	ND	18		mg/Kg-dry	1		9/5/2012
4-Chloro-3-methylphenol	ND	34		mg/Kg-dry	1		9/5/2012
2-Chloronaphthalene	ND	18		mg/Kg-dry	1		9/5/2012
2-Chlorophenol	ND	18		mg/Kg-dry	1		9/5/2012
4-Chlorophenyl phenyl ether	ND	18		mg/Kg-dry	1		9/5/2012
Chrysene	430 J	17		mg/Kg-dry	5		9/6/2012
Dibenz(a,h)anthracene	80 J	3.4		mg/Kg-dry	1		9/5/2012
Dibenzofuran	290 J	18		mg/Kg-dry	1		9/5/2012
1,2-Dichlorobenzene	ND	18		mg/Kg-dry	1		9/5/2012
1,3-Dichlorobenzene	ND	18		mg/Kg-dry	1		9/5/2012
1,4-Dichlorobenzene	ND	18		mg/Kg-dry	1		9/5/2012
3,3'-Dichlorobenzidine	ND	18		mg/Kg-dry	1		9/5/2012
2,4-Dichlorophenol	ND	18		mg/Kg-dry	1		9/5/2012
Diethyl phthalate	ND	18		mg/Kg-dry	1		9/5/2012
2,4-Dimethylphenol	500 J	88		mg/Kg-dry	5		9/6/2012
Dimethyl phthalate	ND	18		mg/Kg-dry	1		9/5/2012
4,6-Dinitro-2-methylphenol	ND	34		mg/Kg-dry	1		9/5/2012
2,4-Dinitrophenol	ND	86		mg/Kg-dry	1		9/5/2012
2,4-Dinitrotoluene	ND	3.4		mg/Kg-dry	1		9/5/2012
2,6-Dinitrotoluene	ND	3.4		mg/Kg-dry	1		9/5/2012
Di-n-butyl phthalate	ND	18		mg/Kg-dry	1		9/5/2012
Di-n-octyl phthalate	ND	18		mg/Kg-dry	1		9/5/2012
Fluoranthene	910 J	17		mg/Kg-dry	5		9/6/2012
Fluorene	470 J	17		mg/Kg-dry	5		9/6/2012
Hexachlorobenzene	ND	18		mg/Kg-dry	1		9/5/2012
Hexachlorobutadiene	ND	18		mg/Kg-dry	1		9/5/2012
Hexachlorocyclopentadiene	ND	18		mg/Kg-dry	1		9/5/2012
Hexachloroethane	ND	18		mg/Kg-dry	1		9/5/2012
Indeno(1,2,3-cd)pyrene	120 J	3.4		mg/Kg-dry	1		9/5/2012
Isophorone	ND	18		mg/Kg-dry	1		9/5/2012
2-Methylnaphthalene	430 J	88		mg/Kg-dry	5		9/6/2012
2-Methylphenol	310 J	18		mg/Kg-dry	1		9/5/2012

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012

Date Printed: September 12, 2012

Client: Weston Solutions
Lab Order: 12080997
Project: Springfield Iron, Springfield, IL
Lab ID: 12080997-005

Client Sample ID: SI-SB05(4-6)-082812

Collection Date: 8/28/2012 1:30:00 PM

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS						
4-Methylphenol	1200 J	88		mg/Kg-dry	5	9/6/2012
Naphthalene	590 J	17		mg/Kg-dry	5	9/6/2012
2-Nitroaniline	ND	18		mg/Kg-dry	1	9/5/2012
3-Nitroaniline	ND	18		mg/Kg-dry	1	9/5/2012
4-Nitroaniline	ND	18		mg/Kg-dry	1	9/5/2012
2-Nitrophenol	ND	18		mg/Kg-dry	1	9/5/2012
4-Nitrophenol	ND	34		mg/Kg-dry	1	9/5/2012
Nitrobenzene	ND	3.4		mg/Kg-dry	1	9/5/2012
N-Nitrosodi-n-propylamine	ND	3.4		mg/Kg-dry	1	9/5/2012
N-Nitrosodimethylamine	ND	18		mg/Kg-dry	1	9/5/2012
N-Nitrosodiphenylamine	ND	3.4		mg/Kg-dry	1	9/5/2012
2, 2'-oxybis(1-Chloropropane)	ND	18		mg/Kg-dry	1	9/5/2012
Pentachlorophenol	ND	3.4		mg/Kg-dry	1	9/5/2012
Phenanthrene	1500 J	17		mg/Kg-dry	5	9/6/2012
Phenol	450 J	88		mg/Kg-dry	5	9/6/2012
Pyrene	790 J	17		mg/Kg-dry	5	9/6/2012
Pyridine	ND	69		mg/Kg-dry	1	9/5/2012
1,2,4-Trichlorobenzene	ND	18		mg/Kg-dry	1	9/5/2012
2,4,5-Trichlorophenol	ND	18		mg/Kg-dry	1	9/5/2012
2,4,6-Trichlorophenol	ND	18		mg/Kg-dry	1	9/5/2012
Volatile Organic Compounds by GC/MS						
Acetone	ND	20		mg/Kg-dry	200	9/6/2012
Benzene	49	1.3		mg/Kg-dry	200	9/6/2012
Bromodichloromethane	ND	1.3		mg/Kg-dry	200	9/6/2012
Bromoform	ND	1.3		mg/Kg-dry	200	9/6/2012
Bromomethane	ND	2.6		mg/Kg-dry	200	9/6/2012
2-Butanone	ND	20		mg/Kg-dry	200	9/6/2012
Carbon disulfide	ND	13		mg/Kg-dry	200	9/6/2012
Carbon tetrachloride	ND	1.3		mg/Kg-dry	200	9/6/2012
Chlorobenzene	ND	1.3		mg/Kg-dry	200	9/6/2012
Chloroethane	ND	2.6		mg/Kg-dry	200	9/6/2012
Chloroform	ND	1.3		mg/Kg-dry	200	9/6/2012
Chloromethane	ND	2.6		mg/Kg-dry	200	9/6/2012
Dibromochloromethane	ND	1.3		mg/Kg-dry	200	9/6/2012
1,1-Dichloroethane	ND	1.3		mg/Kg-dry	200	9/6/2012
1,2-Dichloroethane	ND	1.3		mg/Kg-dry	200	9/6/2012
1,1-Dichloroethene	ND	1.3		mg/Kg-dry	200	9/6/2012
cis-1,2-Dichloroethene	ND	1.3		mg/Kg-dry	200	9/6/2012

ND - Not Detected at the Reporting Limit

Qualifiers: J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012**Date Printed:** September 12, 2012

Client: Weston Solutions
Lab Order: 12080997
Project: Springfield Iron, Springfield, IL
Lab ID: 12080997-005

Client Sample ID: SI-SB05(4-6)-082812
Collection Date: 8/28/2012 1:30:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS						
trans-1,2-Dichloroethene	ND	1.3		mg/Kg-dry	200	9/6/2012
1,2-Dichloropropane	ND	1.3		mg/Kg-dry	200	9/6/2012
cis-1,3-Dichloropropene	ND	0.53		mg/Kg-dry	200	9/6/2012
trans-1,3-Dichloropropene	ND	0.53		mg/Kg-dry	200	9/6/2012
Ethylbenzene	8.2	1.3		mg/Kg-dry	200	9/6/2012
2-Hexanone	ND	5.3		mg/Kg-dry	200	9/6/2012
4-Methyl-2-pentanone	ND	5.3		mg/Kg-dry	200	9/6/2012
Methylene chloride	ND	2.6		mg/Kg-dry	200	9/6/2012
Methyl tert-butyl ether	ND	1.3		mg/Kg-dry	200	9/6/2012
Styrene	ND	1.3		mg/Kg-dry	200	9/6/2012
1,1,2,2-Tetrachloroethane	ND	1.3		mg/Kg-dry	200	9/6/2012
Tetrachloroethene	ND	1.3		mg/Kg-dry	200	9/6/2012
Toluene	71	1.3		mg/Kg-dry	200	9/6/2012
1,1,1-Trichloroethane	ND	1.3		mg/Kg-dry	200	9/6/2012
1,1,2-Trichloroethane	ND	1.3		mg/Kg-dry	200	9/6/2012
Trichloroethene	ND	1.3		mg/Kg-dry	200	9/6/2012
Vinyl chloride	ND	1.3		mg/Kg-dry	200	9/6/2012
Xylenes, Total	95	4		mg/Kg-dry	200	9/6/2012
Cyanide, Total						
Cyanide	ND	0.26		mg/Kg-dry	1	9/1/2012
pH (25 °C)						
pH	7.1			pH Units	1	8/30/2012
Percent Moisture						
Percent Moisture	4.0	0.2	*	wt%	1	9/4/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012

Date Printed: September 12, 2012

Client:	Weston Solutions	Client Sample ID:	SI-SB04(4-6)-082812
Lab Order:	12080997	Collection Date:	8/28/2012 1:45:00 PM
Project:	Springfield Iron, Springfield, IL	Matrix:	Soil
Lab ID:	12080997-006		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury		SW7471A				
Mercury	0.15	0.021		mg/Kg-dry	1	9/6/2012
Metals by ICP/MS		SW6020 (SW3050B)				
Aluminum	6200	240		mg/Kg-dry	100	9/4/2012
Antimony	5.5	2.4		mg/Kg-dry	10	9/4/2012
Arsenic	37	1.2		mg/Kg-dry	10	9/4/2012
Barium	69	1.2		mg/Kg-dry	10	9/4/2012
Beryllium	1.4	0.61		mg/Kg-dry	10	9/5/2012
Cadmium	6	0.61		mg/Kg-dry	10	9/4/2012
Calcium	8500	73		mg/Kg-dry	10	9/4/2012
Chromium	21	1.2		mg/Kg-dry	10	9/4/2012
Cobalt	7.6	1.2		mg/Kg-dry	10	9/4/2012
Copper	44	3.1		mg/Kg-dry	10	9/4/2012
Iron	73000	3700		mg/Kg-dry	1000	9/5/2012
Lead	86	0.61		mg/Kg-dry	10	9/4/2012
Magnesium	1800	37		mg/Kg-dry	10	9/4/2012
Manganese	390	1.2		mg/Kg-dry	10	9/4/2012
Nickel	16	1.2		mg/Kg-dry	10	9/4/2012
Potassium	750	37		mg/Kg-dry	10	9/4/2012
Selenium	4.3	1.2		mg/Kg-dry	10	9/4/2012
Silver	ND	1.2		mg/Kg-dry	10	9/4/2012
Sodium	650	73		mg/Kg-dry	10	9/4/2012
Thallium	7.6	1.2		mg/Kg-dry	10	9/4/2012
Vanadium	69	1.2		mg/Kg-dry	10	9/4/2012
Zinc	300	6.1		mg/Kg-dry	10	9/4/2012
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)				
Acenaphthene	160	3.7		mg/Kg-dry	1	9/5/2012
Acenaphthylene	470	18		mg/Kg-dry	5	9/6/2012
Aniline	ND	37		mg/Kg-dry	1	9/5/2012
Anthracene	720	18		mg/Kg-dry	5	9/6/2012
Benz(a)anthracene	500	18		mg/Kg-dry	5	9/6/2012
Benzidine	ND	37		mg/Kg-dry	1	9/5/2012
Benzo(a)pyrene	360	3.7		mg/Kg-dry	1	9/5/2012
Benzo(b)fluoranthene	240	3.7		mg/Kg-dry	1	9/5/2012
Benzo(g,h,i)perylene	110	3.7		mg/Kg-dry	1	9/5/2012
Benzo(k)fluoranthene	290	3.7		mg/Kg-dry	1	9/5/2012
Benzoic acid	ND	93		mg/Kg-dry	1	9/5/2012
Benzyl alcohol	ND	19		mg/Kg-dry	1	9/5/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012

Date Printed: September 12, 2012

Client: Weston Solutions
Lab Order: 12080997
Project: Springfield Iron, Springfield, IL
Lab ID: 12080997-006

Client Sample ID: SI-SB04(4-6)-082812

Collection Date: 8/28/2012 1:45:00 PM

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS						
Bis(2-chloroethoxy)methane	ND	19		mg/Kg-dry	1	9/5/2012
Bis(2-chloroethyl)ether	ND	19		mg/Kg-dry	1	9/5/2012
Bis(2-ethylhexyl)phthalate	ND	93		mg/Kg-dry	1	9/5/2012
4-Bromophenyl phenyl ether	ND	19		mg/Kg-dry	1	9/5/2012
Butyl benzyl phthalate	ND	19		mg/Kg-dry	1	9/5/2012
Carbazole	190	19		mg/Kg-dry	1	9/5/2012
4-Chloroaniline	ND	19		mg/Kg-dry	1	9/5/2012
4-Chloro-3-methylphenol	ND	37		mg/Kg-dry	1	9/5/2012
2-Choronaphthalene	ND	19		mg/Kg-dry	1	9/5/2012
2-Chlorophenol	ND	19		mg/Kg-dry	1	9/5/2012
4-Chlorophenyl phenyl ether	ND	19		mg/Kg-dry	1	9/5/2012
Chrysene	460	18		mg/Kg-dry	5	9/6/2012
Dibenz(a,h)anthracene	86	3.7		mg/Kg-dry	1	9/5/2012
Dibenzofuran	390	19		mg/Kg-dry	1	9/5/2012
1,2-Dichlorobenzene	ND	19		mg/Kg-dry	1	9/5/2012
1,3-Dichlorobenzene	ND	19		mg/Kg-dry	1	9/5/2012
1,4-Dichlorobenzene	ND	19		mg/Kg-dry	1	9/5/2012
3,3'-Dichlorobenzidine	ND	19		mg/Kg-dry	1	9/5/2012
2,4-Dichlorophenol	ND	19		mg/Kg-dry	1	9/5/2012
Diethyl phthalate	ND	19		mg/Kg-dry	1	9/5/2012
2,4-Dimethylphenol	590	95		mg/Kg-dry	5	9/6/2012
Dimethyl phthalate	ND	19		mg/Kg-dry	1	9/5/2012
4,6-Dinitro-2-methylphenol	ND	37		mg/Kg-dry	1	9/5/2012
2,4-Dinitrophenol	ND	93		mg/Kg-dry	1	9/5/2012
2,4-Dinitrotoluene	ND	3.7		mg/Kg-dry	1	9/5/2012
2,6-Dinitrotoluene	ND	3.7		mg/Kg-dry	1	9/5/2012
Di-n-butyl phthalate	ND	19		mg/Kg-dry	1	9/5/2012
Di-n-octyl phthalate	ND	19		mg/Kg-dry	1	9/5/2012
Fluoranthene	1000	18		mg/Kg-dry	5	9/6/2012
Fluorene	600	18		mg/Kg-dry	5	9/6/2012
Hexachlorobenzene	ND	19		mg/Kg-dry	1	9/5/2012
Hexachlorobutadiene	ND	19		mg/Kg-dry	1	9/5/2012
Hexachlorocyclopentadiene	ND	19		mg/Kg-dry	1	9/5/2012
Hexachloroethane	ND	19		mg/Kg-dry	1	9/5/2012
Indeno(1,2,3-cd)pyrene	130	3.7		mg/Kg-dry	1	9/5/2012
Isophorone	ND	19		mg/Kg-dry	1	9/5/2012
2-Methylnaphthalene	580	95		mg/Kg-dry	5	9/6/2012
2-Methylphenol	350	19		mg/Kg-dry	1	9/5/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012

Date Printed: September 12, 2012

Client:	Weston Solutions	Client Sample ID:	SI-SB04(4-6)-082812
Lab Order:	12080997	Collection Date:	8/28/2012 1:45:00 PM
Project:	Springfield Iron, Springfield, IL	Matrix:	Soil
Lab ID:	12080997-006		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)	Prep Date:	9/5/2012	Analyst:	DM
4-Methylphenol	1400	95	mg/Kg-dry	5		9/6/2012
Naphthalene	800	18	mg/Kg-dry	5		9/6/2012
2-Nitroaniline	ND	19	mg/Kg-dry	1		9/5/2012
3-Nitroaniline	ND	19	mg/Kg-dry	1		9/5/2012
4-Nitroaniline	ND	19	mg/Kg-dry	1		9/5/2012
2-Nitrophenol	ND	19	mg/Kg-dry	1		9/5/2012
4-Nitrophenol	ND	37	mg/Kg-dry	1		9/5/2012
Nitrobenzene	ND	3.7	mg/Kg-dry	1		9/5/2012
N-Nitrosodi-n-propylamine	ND	3.7	mg/Kg-dry	1		9/5/2012
N-Nitrosodimethylamine	ND	19	mg/Kg-dry	1		9/5/2012
N-Nitrosodiphenylamine	ND	3.7	mg/Kg-dry	1		9/5/2012
2, 2'-oxybis(1-Chloropropane)	ND	19	mg/Kg-dry	1		9/5/2012
Pentachlorophenol	ND	3.7	mg/Kg-dry	1		9/5/2012
Phenanthrene	1700	18	mg/Kg-dry	5		9/6/2012
Phenol	500	95	mg/Kg-dry	5		9/6/2012
Pyrene	860	18	mg/Kg-dry	5		9/6/2012
Pyridine	ND	75	mg/Kg-dry	1		9/5/2012
1,2,4-Trichlorobenzene	ND	19	mg/Kg-dry	1		9/5/2012
2,4,5-Trichlorophenol	ND	19	mg/Kg-dry	1		9/5/2012
2,4,6-Trichlorophenol	ND	19	mg/Kg-dry	1		9/5/2012

Volatile Organic Compounds by GC/MS		SW5035/8260B	Prep Date:	8/31/2012	Analyst:	ART
Acetone	ND	23	mg/Kg-dry	200		9/6/2012
Benzene	30	1.6	mg/Kg-dry	200		9/6/2012
Bromodichloromethane	ND	1.6	mg/Kg-dry	200		9/6/2012
Bromoform	ND	1.6	mg/Kg-dry	200		9/6/2012
Bromomethane	ND	3.1	mg/Kg-dry	200		9/6/2012
2-Butanone	ND	23	mg/Kg-dry	200		9/6/2012
Carbon disulfide	ND	16	mg/Kg-dry	200		9/6/2012
Carbon tetrachloride	ND	1.6	mg/Kg-dry	200		9/6/2012
Chlorobenzene	ND	1.6	mg/Kg-dry	200		9/6/2012
Chloroethane	ND	3.1	mg/Kg-dry	200		9/6/2012
Chloroform	ND	1.6	mg/Kg-dry	200		9/6/2012
Chloromethane	ND	3.1	mg/Kg-dry	200		9/6/2012
Dibromochloromethane	ND	1.6	mg/Kg-dry	200		9/6/2012
1,1-Dichloroethane	ND	1.6	mg/Kg-dry	200		9/6/2012
1,2-Dichloroethane	ND	1.6	mg/Kg-dry	200		9/6/2012
1,1-Dichloroethene	ND	1.6	mg/Kg-dry	200		9/6/2012
cis-1,2-Dichloroethene	ND	1.6	mg/Kg-dry	200		9/6/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

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HT - Sample received past holding time

E - Value above quantitation range

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012**Date Printed:** September 12, 2012

Client: Weston Solutions
Lab Order: 12080997
Project: Springfield Iron, Springfield, IL
Lab ID: 12080997-006

Client Sample ID: SI-SB04(4-6)-082812
Collection Date: 8/28/2012 1:45:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS						
trans-1,2-Dichloroethene	ND	1.6		mg/Kg-dry	200	9/6/2012
1,2-Dichloropropane	ND	1.6		mg/Kg-dry	200	9/6/2012
cis-1,3-Dichloropropene	ND	0.63		mg/Kg-dry	200	9/6/2012
trans-1,3-Dichloropropene	ND	0.63		mg/Kg-dry	200	9/6/2012
Ethylbenzene	5.3	1.6		mg/Kg-dry	200	9/6/2012
2-Hexanone	ND	6.3		mg/Kg-dry	200	9/6/2012
4-Methyl-2-pentanone	ND	6.3		mg/Kg-dry	200	9/6/2012
Methylene chloride	ND	3.1		mg/Kg-dry	200	9/6/2012
Methyl tert-butyl ether	ND	1.6		mg/Kg-dry	200	9/6/2012
Styrene	ND	1.6		mg/Kg-dry	200	9/6/2012
1,1,2,2-Tetrachloroethane	ND	1.6		mg/Kg-dry	200	9/6/2012
Tetrachloroethene	ND	1.6		mg/Kg-dry	200	9/6/2012
Toluene	42	1.6		mg/Kg-dry	200	9/6/2012
1,1,1-Trichloroethane	ND	1.6		mg/Kg-dry	200	9/6/2012
1,1,2-Trichloroethane	ND	1.6		mg/Kg-dry	200	9/6/2012
Trichloroethene	ND	1.6		mg/Kg-dry	200	9/6/2012
Vinyl chloride	ND	1.6		mg/Kg-dry	200	9/6/2012
Xylenes, Total	57	4.7		mg/Kg-dry	200	9/6/2012
Cyanide, Total						
Cyanide	0.35	0.28		mg/Kg-dry	1	9/1/2012
pH (25 °C)						
pH	7.5			pH Units	1	8/30/2012
Percent Moisture						
Percent Moisture	10.9	0.2	*	wt%	1	9/4/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

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R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012

Date Printed: September 12, 2012

Client: Weston Solutions **Client Sample ID:** SI-SB03(8-10)-082812
Lab Order: 12080997 **Collection Date:** 8/28/2012 3:40:00 PM
Project: Springfield Iron, Springfield, IL **Matrix:** Soil
Lab ID: 12080997-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					
Mercury	ND	0.024		mg/Kg-dry	1	9/6/2012
Metals by ICP/MS	SW6020 (SW3050B)					
Aluminum	14000	250		mg/Kg-dry	100	9/4/2012
Antimony	ND	2.5		mg/Kg-dry	10	9/4/2012
Arsenic	2.5	1.2		mg/Kg-dry	10	9/4/2012
Barium	220 ^J	1.2		mg/Kg-dry	10	9/4/2012
Beryllium	0.89	0.62		mg/Kg-dry	10	9/4/2012
Cadmium	ND	0.62		mg/Kg-dry	10	9/4/2012
Calcium	5300	750		mg/Kg-dry	100	9/4/2012
Chromium	16	1.2		mg/Kg-dry	10	9/4/2012
Cobalt	5.9	1.2		mg/Kg-dry	10	9/4/2012
Copper	16	3.1		mg/Kg-dry	10	9/4/2012
Iron	20000	370		mg/Kg-dry	100	9/4/2012
Lead	13	0.62		mg/Kg-dry	10	9/4/2012
Magnesium	3900 ^J	370		mg/Kg-dry	100	9/4/2012
Manganese	720	12		mg/Kg-dry	100	9/4/2012
Nickel	14	1.2		mg/Kg-dry	10	9/4/2012
Potassium	1100	370		mg/Kg-dry	100	9/4/2012
Selenium	ND	1.2		mg/Kg-dry	10	9/4/2012
Silver	ND	1.2		mg/Kg-dry	10	9/4/2012
Sodium	210	75		mg/Kg-dry	10	9/4/2012
Thallium	ND	1.2		mg/Kg-dry	10	9/4/2012
Vanadium	20	1.2		mg/Kg-dry	10	9/4/2012
Zinc	55	6.2		mg/Kg-dry	10	9/4/2012
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)					
Acenaphthene	0.27	0.04		mg/Kg-dry	1	9/5/2012
Acenaphthylene	ND	0.04		mg/Kg-dry	1	9/5/2012
Aniline	ND	0.4		mg/Kg-dry	1	9/5/2012
Anthracene	0.24	0.04		mg/Kg-dry	1	9/5/2012
Benz(a)anthracene	0.056	0.04		mg/Kg-dry	1	9/5/2012
Benzidine	ND	0.4		mg/Kg-dry	1	9/5/2012
Benzo(a)pyrene	0.046	0.04		mg/Kg-dry	1	9/5/2012
Benzo(b)fluoranthene	ND	0.04		mg/Kg-dry	1	9/5/2012
Benzo(g,h,i)perylene	ND	0.04		mg/Kg-dry	1	9/5/2012
Benzo(k)fluoranthene	ND	0.04		mg/Kg-dry	1	9/5/2012
Benzoic acid	ND	1		mg/Kg-dry	1	9/5/2012
Benzyl alcohol	ND	0.21		mg/Kg-dry	1	9/5/2012

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012

Date Printed: September 12, 2012

Client: Weston Solutions
Lab Order: 12080997
Project: Springfield Iron, Springfield, IL
Lab ID: 12080997-007

Client Sample ID: SI-SB03(8-10)-082812
Collection Date: 8/28/2012 3:40:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS						
Bis(2-chloroethoxy)methane	ND	0.21		mg/Kg-dry	1	9/5/2012
Bis(2-chloroethyl)ether	ND	0.21		mg/Kg-dry	1	9/5/2012
Bis(2-ethylhexyl)phthalate	ND	1		mg/Kg-dry	1	9/5/2012
4-Bromophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	9/5/2012
Butyl benzyl phthalate	ND	0.21		mg/Kg-dry	1	9/5/2012
Carbazole	ND	0.21		mg/Kg-dry	1	9/5/2012
4-Chloroaniline	ND	0.21		mg/Kg-dry	1	9/5/2012
4-Chloro-3-methylphenol	ND	0.4		mg/Kg-dry	1	9/5/2012
2-Choronaphthalene	ND	0.21		mg/Kg-dry	1	9/5/2012
2-Chlorophenol	ND	0.21		mg/Kg-dry	1	9/5/2012
4-Chlorophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	9/5/2012
Chrysene	0.065	0.04		mg/Kg-dry	1	9/5/2012
Dibenz(a,h)anthracene	ND	0.04		mg/Kg-dry	1	9/5/2012
Dibenzofuran	0.25	0.21		mg/Kg-dry	1	9/5/2012
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	9/5/2012
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	9/5/2012
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	9/5/2012
3,3'-Dichlorobenzidine	ND	0.21		mg/Kg-dry	1	9/5/2012
2,4-Dichlorophenol	ND	0.21		mg/Kg-dry	1	9/5/2012
Diethyl phthalate	ND	0.21		mg/Kg-dry	1	9/5/2012
2,4-Dimethylphenol	ND	0.21		mg/Kg-dry	1	9/5/2012
Dimethyl phthalate	ND	0.21		mg/Kg-dry	1	9/5/2012
4,6-Dinitro-2-methylphenol	ND	0.4		mg/Kg-dry	1	9/5/2012
2,4-Dinitrophenol	ND	1		mg/Kg-dry	1	9/5/2012
2,4-Dinitrotoluene	ND	0.04		mg/Kg-dry	1	9/5/2012
2,6-Dinitrotoluene	ND	0.04		mg/Kg-dry	1	9/5/2012
Di-n-butyl phthalate	ND	0.21		mg/Kg-dry	1	9/5/2012
Di-n-octyl phthalate	ND	0.21		mg/Kg-dry	1	9/5/2012
Fluoranthene	0.11	0.04		mg/Kg-dry	1	9/5/2012
Fluorene	0.48	0.04		mg/Kg-dry	1	9/5/2012
Hexachlorobenzene	ND	0.21		mg/Kg-dry	1	9/5/2012
Hexachlorobutadiene	ND	0.21		mg/Kg-dry	1	9/5/2012
Hexachlorocyclopentadiene	ND	0.21		mg/Kg-dry	1	9/5/2012
Hexachloroethane	ND	0.21		mg/Kg-dry	1	9/5/2012
Indeno(1,2,3-cd)pyrene	ND	0.04		mg/Kg-dry	1	9/5/2012
Isophorone	ND	0.21		mg/Kg-dry	1	9/5/2012
2-Methylnaphthalene	3.8	0.21		mg/Kg-dry	1	9/5/2012
2-Methylphenol	ND	0.21		mg/Kg-dry	1	9/5/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

STAT Analysis Corporation

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012

Date Printed: September 12, 2012

Client:	Weston Solutions	Client Sample ID:	SI-SB03(8-10)-082812
Lab Order:	12080997	Collection Date:	8/28/2012 3:40:00 PM
Project:	Springfield Iron, Springfield, IL	Matrix:	Soil
Lab ID:	12080997-007		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 9/5/2012	Analyst: DM	
4-Methylphenol	ND	0.21	mg/Kg-dry	1	9/5/2012
Naphthalene	0.42	0.04	mg/Kg-dry	1	9/5/2012
2-Nitroaniline	ND	0.21	mg/Kg-dry	1	9/5/2012
3-Nitroaniline	ND	0.21	mg/Kg-dry	1	9/5/2012
4-Nitroaniline	ND	0.21	mg/Kg-dry	1	9/5/2012
2-Nitrophenol	ND	0.21	mg/Kg-dry	1	9/5/2012
4-Nitrophenol	ND	0.4	mg/Kg-dry	1	9/5/2012
Nitrobenzene	ND	0.04	mg/Kg-dry	1	9/5/2012
N-Nitrosodi-n-propylamine	ND	0.04	mg/Kg-dry	1	9/5/2012
N-Nitrosodimethylamine	ND	0.21	mg/Kg-dry	1	9/5/2012
N-Nitrosodiphenylamine	ND	0.04	mg/Kg-dry	1	9/5/2012
2, 2'-oxybis(1-Chloropropane)	ND	0.21	mg/Kg-dry	1	9/5/2012
Pentachlorophenol	ND	0.04	mg/Kg-dry	1	9/5/2012
Phenanthrene	1.4	0.04	mg/Kg-dry	1	9/5/2012
Phenol	ND	0.21	mg/Kg-dry	1	9/5/2012
Pyrene	0.14	0.04	mg/Kg-dry	1	9/5/2012
Pyridine	ND	0.81	mg/Kg-dry	1	9/5/2012
1,2,4-Trichlorobenzene	ND	0.21	mg/Kg-dry	1	9/5/2012
2,4,5-Trichlorophenol	ND	0.21	mg/Kg-dry	1	9/5/2012
2,4,6-Trichlorophenol	ND	0.21	mg/Kg-dry	1	9/5/2012

Volatile Organic Compounds by GC/MS	SW5035/8260B		Prep Date: 8/31/2012	Analyst: PS	
Acetone	ND	0.078	mg/Kg-dry	1	9/5/2012
Benzene	ND	0.0052	mg/Kg-dry	1	9/5/2012
Bromodichloromethane	ND	0.0052	mg/Kg-dry	1	9/5/2012
Bromoform	ND	0.0052	mg/Kg-dry	1	9/5/2012
Bromomethane	ND	0.01	mg/Kg-dry	1	9/5/2012
2-Butanone	ND	0.078	mg/Kg-dry	1	9/5/2012
Carbon disulfide	ND	0.052	mg/Kg-dry	1	9/5/2012
Carbon tetrachloride	ND	0.0052	mg/Kg-dry	1	9/5/2012
Chlorobenzene	ND	0.0052	mg/Kg-dry	1	9/5/2012
Chlorethane	ND	0.01	mg/Kg-dry	1	9/5/2012
Chloroform	ND	0.0052	mg/Kg-dry	1	9/5/2012
Chloromethane	ND	0.01	mg/Kg-dry	1	9/5/2012
Dibromochloromethane	ND	0.0052	mg/Kg-dry	1	9/5/2012
1,1-Dichloroethane	ND	0.0052	mg/Kg-dry	1	9/5/2012
1,2-Dichloroethane	ND	0.0052	mg/Kg-dry	1	9/5/2012
1,1-Dichloroethene	ND	0.0052	mg/Kg-dry	1	9/5/2012
cis-1,2-Dichloroethene	ND	0.0052	mg/Kg-dry	1	9/5/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

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R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

STAT Analysis Corporation

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012**Date Printed:** September 12, 2012

Client: Weston Solutions
Lab Order: 12080997
Project: Springfield Iron, Springfield, IL
Lab ID: 12080997-007

Client Sample ID: SI-SB03(8-10)-082812
Collection Date: 8/28/2012 3:40:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS						
trans-1,2-Dichloroethene	ND	0.0052		mg/Kg-dry	1	9/5/2012
1,2-Dichloropropane	ND	0.0052		mg/Kg-dry	1	9/5/2012
cis-1,3-Dichloropropene	ND	0.0021		mg/Kg-dry	1	9/5/2012
trans-1,3-Dichloropropene	ND	0.0021		mg/Kg-dry	1	9/5/2012
Ethylbenzene	ND	0.0052		mg/Kg-dry	1	9/5/2012
2-Hexanone	ND	0.021		mg/Kg-dry	1	9/5/2012
4-Methyl-2-pentanone	ND	0.021		mg/Kg-dry	1	9/5/2012
Methylene chloride	ND	0.01		mg/Kg-dry	1	9/5/2012
Methyl tert-butyl ether	ND	0.0052		mg/Kg-dry	1	9/5/2012
Styrene	ND	0.0052		mg/Kg-dry	1	9/5/2012
1,1,2,2-Tetrachloroethane	ND	0.0052		mg/Kg-dry	1	9/5/2012
Tetrachloroethene	ND	0.0052		mg/Kg-dry	1	9/5/2012
Toluene	ND	0.0052		mg/Kg-dry	1	9/5/2012
1,1,1-Trichloroethane	ND	0.0052		mg/Kg-dry	1	9/5/2012
1,1,2-Trichloroethane	ND	0.0052		mg/Kg-dry	1	9/5/2012
Trichloroethene	ND	0.0052		mg/Kg-dry	1	9/5/2012
Vinyl chloride	ND	0.0052		mg/Kg-dry	1	9/5/2012
Xylenes, Total	ND	0.016		mg/Kg-dry	1	9/5/2012
Cyanide, Total						
Cyanide	ND	0.3		mg/Kg-dry	1	9/1/2012
pH (25 °C)						
pH	7.8			pH Units	1	8/30/2012
Percent Moisture						
Percent Moisture	17.6	0.2	*	wt%	1	Analyst: PBG 9/4/2012
						Prep Date: 9/1/2012
						Analyst: YZ 9/1/2012
						Prep Date: 8/30/2012
						Analyst: MNG 8/30/2012

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RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

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B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

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H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012

Date Printed: September 12, 2012

Client: Weston Solutions
Lab Order: 12080997
Project: Springfield Iron, Springfield, IL
Lab ID: 12080997-008

Client Sample ID: SI-SB02(4-6)-082812

Collection Date: 8/28/2012 4:30:00 PM

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					
Mercury	ND	0.022		mg/Kg-dry	1	9/6/2012
Metals by ICP/MS	SW6020 (SW3050B)					
Aluminum	12000	250		mg/Kg-dry	100	9/4/2012
Antimony	ND	2.5		mg/Kg-dry	10	9/4/2012
Arsenic	25	1.2		mg/Kg-dry	10	9/4/2012
Barium	110	1.2		mg/Kg-dry	10	9/4/2012
Beryllium	5	0.62		mg/Kg-dry	10	9/5/2012
Cadmium	2	0.62		mg/Kg-dry	10	9/4/2012
Calcium	38000	74		mg/Kg-dry	10	9/4/2012
Chromium	120	1.2		mg/Kg-dry	10	9/4/2012
Cobalt	6.6	1.2		mg/Kg-dry	10	9/4/2012
Copper	24	3.1		mg/Kg-dry	10	9/4/2012
Iron	300000	3700		mg/Kg-dry	1000	9/7/2012
Lead	28	6.2		mg/Kg-dry	100	9/4/2012
Magnesium	6800	37		mg/Kg-dry	10	9/4/2012
Manganese	3600	12		mg/Kg-dry	100	9/4/2012
Nickel	16	1.2		mg/Kg-dry	10	9/4/2012
Potassium	1800	37		mg/Kg-dry	10	9/4/2012
Selenium	4.1	1.2		mg/Kg-dry	10	9/4/2012
Silver	ND	1.2		mg/Kg-dry	10	9/4/2012
Sodium	870	74		mg/Kg-dry	10	9/4/2012
Thallium	ND	12		mg/Kg-dry	100	9/4/2012
Vanadium	720	1.2		mg/Kg-dry	10	9/4/2012
Zinc	61	6.2		mg/Kg-dry	10	9/4/2012
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)					
Acenaphthene	ND	0.037		mg/Kg-dry	1	9/7/2012
Acenaphthylene	0.21	0.037		mg/Kg-dry	1	9/7/2012
Aniline	ND	0.38		mg/Kg-dry	1	9/7/2012
Anthracene	0.13	0.037		mg/Kg-dry	1	9/7/2012
Benz(a)anthracene	0.12	0.037		mg/Kg-dry	1	9/7/2012
Benzidine	ND	0.37		mg/Kg-dry	1	9/7/2012
Benzo(a)pyrene	0.08	0.037		mg/Kg-dry	1	9/7/2012
Benzo(b)fluoranthene	0.06	0.037		mg/Kg-dry	1	9/7/2012
Benzo(g,h,i)perylene	ND	0.037		mg/Kg-dry	1	9/7/2012
Benzo(k)fluoranthene	0.083	0.037		mg/Kg-dry	1	9/7/2012
Benzoic acid	ND	0.94		mg/Kg-dry	1	9/7/2012
Benzyl alcohol	ND	0.19		mg/Kg-dry	1	9/7/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012**Date Printed:** September 12, 2012

Client: Weston Solutions
Lab Order: 12080997
Project: Springfield Iron, Springfield, IL
Lab ID: 12080997-008

Client Sample ID: SI-SB02(4-6)-082812
Collection Date: 8/28/2012 4:30:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)			Prep Date: 9/5/2012	Analyst: DM
Bis(2-chloroethoxy)methane	ND	0.19	mg/Kg-dry	1	9/7/2012
Bis(2-chloroethyl)ether	ND	0.19	mg/Kg-dry	1	9/7/2012
Bis(2-ethylhexyl)phthalate	ND	0.94	mg/Kg-dry	1	9/7/2012
4-Bromophenyl phenyl ether	ND	0.19	mg/Kg-dry	1	9/7/2012
Butyl benzyl phthalate	ND	0.19	mg/Kg-dry	1	9/7/2012
Carbazole	ND	0.19	mg/Kg-dry	1	9/7/2012
4-Chloroaniline	ND	0.19	mg/Kg-dry	1	9/7/2012
4-Chloro-3-methylphenol	ND	0.37	mg/Kg-dry	1	9/7/2012
2-Chloronaphthalene	ND	0.19	mg/Kg-dry	1	9/7/2012
2-Chlorophenol	ND	0.19	mg/Kg-dry	1	9/7/2012
4-Chlorophenyl phenyl ether	ND	0.19	mg/Kg-dry	1	9/7/2012
Chrysene	0.12	0.037	mg/Kg-dry	1	9/7/2012
Dibenz(a,h)anthracene	ND	0.037	mg/Kg-dry	1	9/7/2012
Dibenzofuran	ND	0.19	mg/Kg-dry	1	9/7/2012
1,2-Dichlorobenzene	ND	0.19	mg/Kg-dry	1	9/7/2012
1,3-Dichlorobenzene	ND	0.19	mg/Kg-dry	1	9/7/2012
1,4-Dichlorobenzene	ND	0.19	mg/Kg-dry	1	9/7/2012
3,3'-Dichlorobenzidine	ND	0.19	mg/Kg-dry	1	9/7/2012
2,4-Dichlorophenol	ND	0.19	mg/Kg-dry	1	9/7/2012
Diethyl phthalate	ND	0.19	mg/Kg-dry	1	9/7/2012
2,4-Dimethylphenol	ND	0.19	mg/Kg-dry	1	9/7/2012
Dimethyl phthalate	ND	0.19	mg/Kg-dry	1	9/7/2012
4,6-Dinitro-2-methylphenol	ND	0.37	mg/Kg-dry	1	9/7/2012
2,4-Dinitrophenol	ND	0.94	mg/Kg-dry	1	9/7/2012
2,4-Dinitrotoluene	ND	0.037	mg/Kg-dry	1	9/7/2012
2,6-Dinitrotoluene	ND	0.037	mg/Kg-dry	1	9/7/2012
Di-n-butyl phthalate	ND	0.19	mg/Kg-dry	1	9/7/2012
Di-n-octyl phthalate	ND	0.19	mg/Kg-dry	1	9/7/2012
Fluoranthene	0.32	0.037	mg/Kg-dry	1	9/7/2012
Fluorene	0.13	0.037	mg/Kg-dry	1	9/7/2012
Hexachlorobenzene	ND	0.19	mg/Kg-dry	1	9/7/2012
Hexachlorobutadiene	ND	0.19	mg/Kg-dry	1	9/7/2012
Hexachlorocyclopentadiene	ND	0.19	mg/Kg-dry	1	9/7/2012
Hexachloroethane	ND	0.19	mg/Kg-dry	1	9/7/2012
Indeno(1,2,3-cd)pyrene	ND	0.037	mg/Kg-dry	1	9/7/2012
Isophorone	ND	0.19	mg/Kg-dry	1	9/7/2012
2-Methylnaphthalene	ND	0.19	mg/Kg-dry	1	9/7/2012
2-Methylphenol	ND	0.19	mg/Kg-dry	1	9/7/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

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R - RPD outside accepted recovery limits

HT - Sample received past holding time

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012

Date Printed: September 12, 2012

Client:	Weston Solutions	Client Sample ID:	SI-SB02(4-6)-082812
Lab Order:	12080997	Collection Date:	8/28/2012 4:30:00 PM
Project:	Springfield Iron, Springfield, IL	Matrix:	Soil
Lab ID:	12080997-008		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 9/5/2012	Analyst: DM	
4-Methylphenol	ND	0.19	mg/Kg-dry	1	9/7/2012
Naphthalene	0.06	0.037	mg/Kg-dry	1	9/7/2012
2-Nitroaniline	ND	0.19	mg/Kg-dry	1	9/7/2012
3-Nitroaniline	ND	0.19	mg/Kg-dry	1	9/7/2012
4-Nitroaniline	ND	0.19	mg/Kg-dry	1	9/7/2012
2-Nitrophenol	ND	0.19	mg/Kg-dry	1	9/7/2012
4-Nitrophenol	ND	0.37	mg/Kg-dry	1	9/7/2012
Nitrobenzene	ND	0.037	mg/Kg-dry	1	9/7/2012
N-Nitrosodi-n-propylamine	ND	0.037	mg/Kg-dry	1	9/7/2012
N-Nitrosodimethylamine	ND	0.19	mg/Kg-dry	1	9/7/2012
N-Nitrosodiphenylamine	ND	0.037	mg/Kg-dry	1	9/7/2012
2, 2'-oxybis(1-Chloropropane)	ND	0.19	mg/Kg-dry	1	9/7/2012
Pentachlorophenol	ND	0.037	mg/Kg-dry	1	9/7/2012
Phenanthrene	0.46	0.037	mg/Kg-dry	1	9/7/2012
Phenol	ND	0.19	mg/Kg-dry	1	9/7/2012
Pyrene	0.26	0.037	mg/Kg-dry	1	9/7/2012
Pyridine	ND	0.76	mg/Kg-dry	1	9/7/2012
1,2,4-Trichlorobenzene	ND	0.19	mg/Kg-dry	1	9/7/2012
2,4,5-Trichlorophenol	ND	0.19	mg/Kg-dry	1	9/7/2012
2,4,6-Trichlorophenol	ND	0.19	mg/Kg-dry	1	9/7/2012

Volatile Organic Compounds by GC/MS	SW5035/8260B		Prep Date: 8/31/2012	Analyst: PS	
Acetone	ND	0.084	mg/Kg-dry	1	9/6/2012
Benzene	ND	0.0056	mg/Kg-dry	1	9/6/2012
Bromodichloromethane	ND	0.0056	mg/Kg-dry	1	9/6/2012
Bromoform	ND	0.0056	mg/Kg-dry	1	9/6/2012
Bromomethane	ND	0.011	mg/Kg-dry	1	9/6/2012
2-Butanone	ND	0.084	mg/Kg-dry	1	9/6/2012
Carbon disulfide	ND	0.056	mg/Kg-dry	1	9/6/2012
Carbon tetrachloride	ND	0.0056	mg/Kg-dry	1	9/6/2012
Chlorobenzene	ND	0.0056	mg/Kg-dry	1	9/6/2012
Chlorethane	ND	0.011	mg/Kg-dry	1	9/6/2012
Chloroform	ND	0.0056	mg/Kg-dry	1	9/6/2012
Chloromethane	ND	0.011	mg/Kg-dry	1	9/6/2012
Dibromochloromethane	ND	0.0056	mg/Kg-dry	1	9/6/2012
1,1-Dichloroethane	ND	0.0056	mg/Kg-dry	1	9/6/2012
1,2-Dichloroethane	ND	0.0056	mg/Kg-dry	1	9/6/2012
1,1-Dichloroethene	ND	0.0056	mg/Kg-dry	1	9/6/2012
cis-1,2-Dichloroethene	ND	0.0056	mg/Kg-dry	1	9/6/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

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E - Value above quantitation range

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012

Date Printed: September 12, 2012

Client:	Weston Solutions	Client Sample ID:	SI-SB02(4-6)-082812
Lab Order:	12080997	Collection Date:	8/28/2012 4:30:00 PM
Project:	Springfield Iron, Springfield, IL	Matrix:	Soil
Lab ID:	12080997-008		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS						
trans-1,2-Dichloroethene	ND	0.0056		mg/Kg-dry	1	9/6/2012
1,2-Dichloropropane	ND	0.0056		mg/Kg-dry	1	9/6/2012
cis-1,3-Dichloropropene	ND	0.0022		mg/Kg-dry	1	9/6/2012
trans-1,3-Dichloropropene	ND	0.0022		mg/Kg-dry	1	9/6/2012
Ethylbenzene	ND	0.0056		mg/Kg-dry	1	9/6/2012
2-Hexanone	ND	0.022		mg/Kg-dry	1	9/6/2012
4-Methyl-2-pentanone	ND	0.022		mg/Kg-dry	1	9/6/2012
Methylene chloride	ND	0.011		mg/Kg-dry	1	9/6/2012
Methyl tert-butyl ether	ND	0.0056		mg/Kg-dry	1	9/6/2012
Styrene	ND	0.0056		mg/Kg-dry	1	9/6/2012
1,1,2,2-Tetrachloroethane	ND	0.0056		mg/Kg-dry	1	9/6/2012
Tetrachloroethene	ND	0.0056		mg/Kg-dry	1	9/6/2012
Toluene	ND	0.0056		mg/Kg-dry	1	9/6/2012
1,1,1-Trichloroethane	ND	0.0056		mg/Kg-dry	1	9/6/2012
1,1,2-Trichloroethane	ND	0.0056		mg/Kg-dry	1	9/6/2012
Trichloroethene	ND	0.0056		mg/Kg-dry	1	9/6/2012
Vinyl chloride	ND	0.0056		mg/Kg-dry	1	9/6/2012
Xylenes, Total	ND	0.017		mg/Kg-dry	1	9/6/2012
Cyanide, Total						
Cyanide	ND	0.29		mg/Kg-dry	1	9/1/2012
pH (25 °C)						
pH	7.5			pH Units	1	8/30/2012
Percent Moisture						
Percent Moisture	12.4	0.2	*	wt%	1	Analyst: PBG 9/4/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012

Date Printed: September 12, 2012

Client:	Weston Solutions	Client Sample ID:	SI-SB01(1-3)-082812
Lab Order:	12080997	Collection Date:	8/28/2012 4:45:00 PM
Project:	Springfield Iron, Springfield, IL	Matrix:	Soil
Lab ID:	12080997-009		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury						
Mercury	0.056	0.023		mg/Kg-dry	1	9/6/2012
Metals by ICP/MS						
	SW7471A					
Aluminum	7200	250		mg/Kg-dry	100	9/4/2012
Antimony	ND	2.5		mg/Kg-dry	10	9/4/2012
Arsenic	12	1.3		mg/Kg-dry	10	9/4/2012
Barium	87	1.3		mg/Kg-dry	10	9/4/2012
Beryllium	1.6	0.63		mg/Kg-dry	10	9/5/2012
Cadmium	1.5	0.63		mg/Kg-dry	10	9/4/2012
Calcium	21000	76		mg/Kg-dry	10	9/4/2012
Chromium	11	1.3		mg/Kg-dry	10	9/4/2012
Cobalt	6.9	1.3		mg/Kg-dry	10	9/4/2012
Copper	44	3.2		mg/Kg-dry	10	9/4/2012
Iron	42000	3800		mg/Kg-dry	1000	9/7/2012
Lead	43	6.3		mg/Kg-dry	100	9/4/2012
Magnesium	1600	38		mg/Kg-dry	10	9/4/2012
Manganese	490	13		mg/Kg-dry	100	9/4/2012
Nickel	15	1.3		mg/Kg-dry	10	9/4/2012
Potassium	700	38		mg/Kg-dry	10	9/4/2012
Selenium	ND	1.3		mg/Kg-dry	10	9/4/2012
Silver	ND	1.3		mg/Kg-dry	10	9/4/2012
Sodium	460	76		mg/Kg-dry	10	9/4/2012
Thallium	ND	13		mg/Kg-dry	100	9/4/2012
Vanadium	29	1.3		mg/Kg-dry	10	9/4/2012
Zinc	120	6.3		mg/Kg-dry	10	9/4/2012
Semivolatile Organic Compounds by GC/MS						
	SW8270C (SW3550B)					
Acenaphthene	0.053	0.038		mg/Kg-dry	1	9/7/2012
Acenaphthylene	0.1	0.038		mg/Kg-dry	1	9/7/2012
Aniline	ND	0.39		mg/Kg-dry	1	9/7/2012
Anthracene	0.18	0.038		mg/Kg-dry	1	9/7/2012
Benz(a)anthracene	0.49	0.038		mg/Kg-dry	1	9/7/2012
Benzidine	ND	0.38		mg/Kg-dry	1	9/7/2012
Benzo(a)pyrene	0.44	0.038		mg/Kg-dry	1	9/7/2012
Benzo(b)fluoranthene	0.37	0.038		mg/Kg-dry	1	9/7/2012
Benzo(g,h,i)perylene	0.21	0.038		mg/Kg-dry	1	9/7/2012
Benzo(k)fluoranthene	0.38	0.038		mg/Kg-dry	1	9/7/2012
Benzoic acid	ND	0.96		mg/Kg-dry	1	9/7/2012
Benzyl alcohol	ND	0.2		mg/Kg-dry	1	9/7/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

STAT Analysis Corporation

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012**Date Printed:** September 12, 2012

Client: Weston Solutions
Lab Order: 12080997
Project: Springfield Iron, Springfield, IL
Lab ID: 12080997-009

Client Sample ID: SI-SB01(1-3)-082812
Collection Date: 8/28/2012 4:45:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS						
Bis(2-chloroethoxy)methane	ND	0.2		mg/Kg-dry	1	9/7/2012
Bis(2-chloroethyl)ether	ND	0.2		mg/Kg-dry	1	9/7/2012
Bis(2-ethylhexyl)phthalate	ND	0.96		mg/Kg-dry	1	9/7/2012
4-Bromophenyl phenyl ether	ND	0.2		mg/Kg-dry	1	9/7/2012
Butyl benzyl phthalate	ND	0.2		mg/Kg-dry	1	9/7/2012
Carbazole	ND	0.2		mg/Kg-dry	1	9/7/2012
4-Chloroaniline	ND	0.2		mg/Kg-dry	1	9/7/2012
4-Chloro-3-methylphenol	ND	0.38		mg/Kg-dry	1	9/7/2012
2-Chloronaphthalene	ND	0.2		mg/Kg-dry	1	9/7/2012
2-Chlorophenol	ND	0.2		mg/Kg-dry	1	9/7/2012
4-Chlorophenyl phenyl ether	ND	0.2		mg/Kg-dry	1	9/7/2012
Chrysene	0.49	0.038		mg/Kg-dry	1	9/7/2012
Dibenz(a,h)anthracene	0.14	0.038		mg/Kg-dry	1	9/7/2012
Dibenzofuran	ND	0.2		mg/Kg-dry	1	9/7/2012
1,2-Dichlorobenzene	ND	0.2		mg/Kg-dry	1	9/7/2012
1,3-Dichlorobenzene	ND	0.2		mg/Kg-dry	1	9/7/2012
1,4-Dichlorobenzene	ND	0.2		mg/Kg-dry	1	9/7/2012
3,3'-Dichlorobenzidine	ND	0.2		mg/Kg-dry	1	9/7/2012
2,4-Dichlorophenol	ND	0.2		mg/Kg-dry	1	9/7/2012
Diethyl phthalate	ND	0.2		mg/Kg-dry	1	9/7/2012
2,4-Dimethylphenol	ND	0.2		mg/Kg-dry	1	9/7/2012
Dimethyl phthalate	ND	0.2		mg/Kg-dry	1	9/7/2012
4,6-Dinitro-2-methylphenol	ND	0.38		mg/Kg-dry	1	9/7/2012
2,4-Dinitrophenol	ND	0.96		mg/Kg-dry	1	9/7/2012
2,4-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	9/7/2012
2,6-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	9/7/2012
Di-n-butyl phthalate	ND	0.2		mg/Kg-dry	1	9/7/2012
Di-n-octyl phthalate	ND	0.2		mg/Kg-dry	1	9/7/2012
Fluoranthene	0.61	0.038		mg/Kg-dry	1	9/7/2012
Fluorene	0.067	0.038		mg/Kg-dry	1	9/7/2012
Hexachlorobenzene	ND	0.2		mg/Kg-dry	1	9/7/2012
Hexachlorobutadiene	ND	0.2		mg/Kg-dry	1	9/7/2012
Hexachlorocyclopentadiene	ND	0.2		mg/Kg-dry	1	9/7/2012
Hexachloroethane	ND	0.2		mg/Kg-dry	1	9/7/2012
Indeno(1,2,3-cd)pyrene	0.23	0.038		mg/Kg-dry	1	9/7/2012
Isophorone	ND	0.2		mg/Kg-dry	1	9/7/2012
2-Methylnaphthalene	ND	0.2		mg/Kg-dry	1	9/7/2012
2-Methylphenol	ND	0.2		mg/Kg-dry	1	9/7/2012

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RL - Reporting / Quantitation Limit for the analysis

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012

Date Printed: September 12, 2012

Client:	Weston Solutions	Client Sample ID:	SI-SB01(1-3)-082812
Lab Order:	12080997	Collection Date:	8/28/2012 4:45:00 PM
Project:	Springfield Iron, Springfield, IL	Matrix:	Soil
Lab ID:	12080997-009		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 9/5/2012	Analyst: DM	
4-Methylphenol	ND	0.2	mg/Kg-dry	1	9/7/2012
Naphthalene	0.048	0.038	mg/Kg-dry	1	9/7/2012
2-Nitroaniline	ND	0.2	mg/Kg-dry	1	9/7/2012
3-Nitroaniline	ND	0.2	mg/Kg-dry	1	9/7/2012
4-Nitroaniline	ND	0.2	mg/Kg-dry	1	9/7/2012
2-Nitrophenol	ND	0.2	mg/Kg-dry	1	9/7/2012
4-Nitrophenol	ND	0.38	mg/Kg-dry	1	9/7/2012
Nitrobenzene	ND	0.038	mg/Kg-dry	1	9/7/2012
N-Nitrosodi-n-propylamine	ND	0.038	mg/Kg-dry	1	9/7/2012
N-Nitrosodimethylamine	ND	0.2	mg/Kg-dry	1	9/7/2012
N-Nitrosodiphenylamine	ND	0.038	mg/Kg-dry	1	9/7/2012
2, 2'-oxybis(1-Chloropropane)	ND	0.2	mg/Kg-dry	1	9/7/2012
Pentachlorophenol	ND	0.038	mg/Kg-dry	1	9/7/2012
Phenanthrene	0.48	0.038	mg/Kg-dry	1	9/7/2012
Phenol	ND	0.2	mg/Kg-dry	1	9/7/2012
Pyrene	0.61	0.038	mg/Kg-dry	1	9/7/2012
Pyridine	ND	0.78	mg/Kg-dry	1	9/7/2012
1,2,4-Trichlorobenzene	ND	0.2	mg/Kg-dry	1	9/7/2012
2,4,5-Trichlorophenol	ND	0.2	mg/Kg-dry	1	9/7/2012
2,4,6-Trichlorophenol	ND	0.2	mg/Kg-dry	1	9/7/2012

Volatile Organic Compounds by GC/MS	SW5035/8260B	Prep Date: 8/31/2012	Analyst: PS		
Acetone	ND	0.091	mg/Kg-dry	1	9/6/2012
Benzene	ND	0.0061	mg/Kg-dry	1	9/6/2012
Bromodichloromethane	ND	0.0061	mg/Kg-dry	1	9/6/2012
Bromoform	ND	0.0061	mg/Kg-dry	1	9/6/2012
Bromomethane	ND	0.012	mg/Kg-dry	1	9/6/2012
2-Butanone	ND	0.091	mg/Kg-dry	1	9/6/2012
Carbon disulfide	ND	0.061	mg/Kg-dry	1	9/6/2012
Carbon tetrachloride	ND	0.0061	mg/Kg-dry	1	9/6/2012
Chlorobenzene	ND	0.0061	mg/Kg-dry	1	9/6/2012
Chlorethane	ND	0.012	mg/Kg-dry	1	9/6/2012
Chloroform	ND	0.0061	mg/Kg-dry	1	9/6/2012
Chloromethane	ND	0.012	mg/Kg-dry	1	9/6/2012
Dibromochloromethane	ND	0.0061	mg/Kg-dry	1	9/6/2012
1,1-Dichloroethane	ND	0.0061	mg/Kg-dry	1	9/6/2012
1,2-Dichloroethane	ND	0.0061	mg/Kg-dry	1	9/6/2012
1,1-Dichloroethene	ND	0.0061	mg/Kg-dry	1	9/6/2012
cis-1,2-Dichloroethene	ND	0.0061	mg/Kg-dry	1	9/6/2012

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012**Date Printed:** September 12, 2012

Client: Weston Solutions
Lab Order: 12080997
Project: Springfield Iron, Springfield, IL
Lab ID: 12080997-009

Client Sample ID: SI-SB01(1-3)-082812
Collection Date: 8/28/2012 4:45:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS						
trans-1,2-Dichloroethene	ND	0.0061		mg/Kg-dry	1	9/6/2012
1,2-Dichloropropane	ND	0.0061		mg/Kg-dry	1	9/6/2012
cis-1,3-Dichloropropene	ND	0.0024		mg/Kg-dry	1	9/6/2012
trans-1,3-Dichloropropene	ND	0.0024		mg/Kg-dry	1	9/6/2012
Ethylbenzene	ND	0.0061		mg/Kg-dry	1	9/6/2012
2-Hexanone	ND	0.024		mg/Kg-dry	1	9/6/2012
4-Methyl-2-pentanone	ND	0.024		mg/Kg-dry	1	9/6/2012
Methylene chloride	ND	0.012		mg/Kg-dry	1	9/6/2012
Methyl tert-butyl ether	ND	0.0061		mg/Kg-dry	1	9/6/2012
Styrene	ND	0.0061		mg/Kg-dry	1	9/6/2012
1,1,2,2-Tetrachloroethane	ND	0.0061		mg/Kg-dry	1	9/6/2012
Tetrachloroethene	ND	0.0061		mg/Kg-dry	1	9/6/2012
Toluene	ND	0.0061		mg/Kg-dry	1	9/6/2012
1,1,1-Trichloroethane	ND	0.0061		mg/Kg-dry	1	9/6/2012
1,1,2-Trichloroethane	ND	0.0061		mg/Kg-dry	1	9/6/2012
Trichloroethene	ND	0.0061		mg/Kg-dry	1	9/6/2012
Vinyl chloride	ND	0.0061		mg/Kg-dry	1	9/6/2012
Xylenes, Total	ND	0.018		mg/Kg-dry	1	9/6/2012
Cyanide, Total						
Cyanide	ND	0.29		mg/Kg-dry	1	9/1/2012
pH (25 °C)						
pH	7.4			pH Units	1	8/30/2012
Percent Moisture						
Percent Moisture	14.8	0.2	*	wt%	1	Analyst: PBG 9/4/2012

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012

Date Printed: September 12, 2012

Client:	Weston Solutions	Client Sample ID:	SI-SB06(3-5)-082912
Lab Order:	12080997	Collection Date:	8/29/2012 8:10:00 AM
Project:	Springfield Iron, Springfield, IL	Matrix:	Soil
Lab ID:	12080997-010		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury		SW7471A				
Mercury	0.031	0.023		mg/Kg-dry	1	9/6/2012
Metals by ICP/MS		SW6020 (SW3050B)				
Aluminum	7100	220		mg/Kg-dry	100	9/4/2012
Antimony	2.7	2.2		mg/Kg-dry	10	9/4/2012
Arsenic	24	1.1		mg/Kg-dry	10	9/4/2012
Barium	110	1.1		mg/Kg-dry	10	9/4/2012
Beryllium	1.2	0.55		mg/Kg-dry	10	9/5/2012
Cadmium	0.6	0.55		mg/Kg-dry	10	9/4/2012
Calcium	8900	66		mg/Kg-dry	10	9/4/2012
Chromium	17	1.1		mg/Kg-dry	10	9/4/2012
Cobalt	11	1.1		mg/Kg-dry	10	9/4/2012
Copper	62	2.8		mg/Kg-dry	10	9/4/2012
Iron	52000	3300		mg/Kg-dry	1000	9/7/2012
Lead	40	5.5		mg/Kg-dry	100	9/4/2012
Magnesium	1000	33		mg/Kg-dry	10	9/4/2012
Manganese	400	1.1		mg/Kg-dry	10	9/4/2012
Nickel	29	1.1		mg/Kg-dry	10	9/4/2012
Potassium	730	33		mg/Kg-dry	10	9/4/2012
Selenium	1.2	1.1		mg/Kg-dry	10	9/4/2012
Silver	ND	1.1		mg/Kg-dry	10	9/4/2012
Sodium	320	66		mg/Kg-dry	10	9/4/2012
Thallium	ND	11		mg/Kg-dry	100	9/4/2012
Vanadium	35	1.1		mg/Kg-dry	10	9/4/2012
Zinc	77	5.5		mg/Kg-dry	10	9/4/2012
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)				
Acenaphthene	ND	0.039		mg/Kg-dry	1	9/5/2012
Acenaphthylene	0.048	0.039		mg/Kg-dry	1	9/5/2012
Aniline	ND	0.39		mg/Kg-dry	1	9/5/2012
Anthracene	0.053	0.039		mg/Kg-dry	1	9/5/2012
Benz(a)anthracene	0.19	0.039		mg/Kg-dry	1	9/5/2012
Benzidine	ND	0.39		mg/Kg-dry	1	9/5/2012
Benzo(a)pyrene	0.2	0.039		mg/Kg-dry	1	9/5/2012
Benzo(b)fluoranthene	0.19	0.039		mg/Kg-dry	1	9/5/2012
Benzo(g,h,i)perylene	0.17	0.039		mg/Kg-dry	1	9/5/2012
Benzo(k)fluoranthene	0.18	0.039		mg/Kg-dry	1	9/5/2012
Benzoic acid	ND	0.98		mg/Kg-dry	1	9/5/2012
Benzyl alcohol	ND	0.2		mg/Kg-dry	1	9/5/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012

Date Printed: September 12, 2012

Client: Weston Solutions
Lab Order: 12080997
Project: Springfield Iron, Springfield, IL
Lab ID: 12080997-010

Client Sample ID: SI-SB06(3-5)-082912

Collection Date: 8/29/2012 8:10:00 AM

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS						
Bis(2-chloroethoxy)methane	ND	0.2		mg/Kg-dry	1	9/5/2012
Bis(2-chloroethyl)ether	ND	0.2		mg/Kg-dry	1	9/5/2012
Bis(2-ethylhexyl)phthalate	ND	0.98		mg/Kg-dry	1	9/5/2012
4-Bromophenyl phenyl ether	ND	0.2		mg/Kg-dry	1	9/5/2012
Butyl benzyl phthalate	ND	0.2		mg/Kg-dry	1	9/5/2012
Carbazole	ND	0.2		mg/Kg-dry	1	9/5/2012
4-Chloroaniline	ND	0.2		mg/Kg-dry	1	9/5/2012
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	9/5/2012
2-Choronaphthalene	ND	0.2		mg/Kg-dry	1	9/5/2012
2-Chlorophenol	ND	0.2		mg/Kg-dry	1	9/5/2012
4-Chlorophenyl phenyl ether	ND	0.2		mg/Kg-dry	1	9/5/2012
Chrysene	0.24	0.039		mg/Kg-dry	1	9/5/2012
Dibenz(a,h)anthracene	0.093	0.039		mg/Kg-dry	1	9/5/2012
Dibenzofuran	ND	0.2		mg/Kg-dry	1	9/5/2012
1,2-Dichlorobenzene	ND	0.2		mg/Kg-dry	1	9/5/2012
1,3-Dichlorobenzene	ND	0.2		mg/Kg-dry	1	9/5/2012
1,4-Dichlorobenzene	ND	0.2		mg/Kg-dry	1	9/5/2012
3,3'-Dichlorobenzidine	ND	0.2		mg/Kg-dry	1	9/5/2012
2,4-Dichlorophenol	ND	0.2		mg/Kg-dry	1	9/5/2012
Diethyl phthalate	ND	0.2		mg/Kg-dry	1	9/5/2012
2,4-Dimethylphenol	ND	0.2		mg/Kg-dry	1	9/5/2012
Dimethyl phthalate	ND	0.2		mg/Kg-dry	1	9/5/2012
4,6-Dinitro-2-methylphenol	ND	0.39		mg/Kg-dry	1	9/5/2012
2,4-Dinitrophenol	ND	0.98		mg/Kg-dry	1	9/5/2012
2,4-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	9/5/2012
2,6-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	9/5/2012
Di-n-butyl phthalate	ND	0.2		mg/Kg-dry	1	9/5/2012
Di-n-octyl phthalate	ND	0.2		mg/Kg-dry	1	9/5/2012
Fluoranthene	0.24	0.039		mg/Kg-dry	1	9/5/2012
Fluorene	ND	0.039		mg/Kg-dry	1	9/5/2012
Hexachlorobenzene	ND	0.2		mg/Kg-dry	1	9/5/2012
Hexachlorobutadiene	ND	0.2		mg/Kg-dry	1	9/5/2012
Hexachlorocyclopentadiene	ND	0.2		mg/Kg-dry	1	9/5/2012
Hexachloroethane	ND	0.2		mg/Kg-dry	1	9/5/2012
Indeno(1,2,3-cd)pyrene	0.12	0.039		mg/Kg-dry	1	9/5/2012
Isophorone	ND	0.2		mg/Kg-dry	1	9/5/2012
2-Methylnaphthalene	ND	0.2		mg/Kg-dry	1	9/5/2012
2-Methylphenol	ND	0.2		mg/Kg-dry	1	9/5/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

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HT - Sample received past holding time

E - Value above quantitation range

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H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012

Date Printed: September 12, 2012

Client:	Weston Solutions	Client Sample ID:	SI-SB06(3-5)-082912
Lab Order:	12080997	Collection Date:	8/29/2012 8:10:00 AM
Project:	Springfield Iron, Springfield, IL	Matrix:	Soil
Lab ID:	12080997-010		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)	Prep Date: 9/5/2012	Analyst: DM		
4-Methylphenol	ND	0.2	mg/Kg-dry	1	9/5/2012
Naphthalene	0.069	0.039	mg/Kg-dry	1	9/5/2012
2-Nitroaniline	ND	0.2	mg/Kg-dry	1	9/5/2012
3-Nitroaniline	ND	0.2	mg/Kg-dry	1	9/5/2012
4-Nitroaniline	ND	0.2	mg/Kg-dry	1	9/5/2012
2-Nitrophenol	ND	0.2	mg/Kg-dry	1	9/5/2012
4-Nitrophenol	ND	0.39	mg/Kg-dry	1	9/5/2012
Nitrobenzene	ND	0.039	mg/Kg-dry	1	9/5/2012
N-Nitrosodi-n-propylamine	ND	0.039	mg/Kg-dry	1	9/5/2012
N-Nitrosodimethylamine	ND	0.2	mg/Kg-dry	1	9/5/2012
N-Nitrosodiphenylamine	ND	0.039	mg/Kg-dry	1	9/5/2012
2, 2'-oxybis(1-Chloropropane)	ND	0.2	mg/Kg-dry	1	9/5/2012
Pentachlorophenol	ND	0.039	mg/Kg-dry	1	9/5/2012
Phenanthrene	0.19	0.039	mg/Kg-dry	1	9/5/2012
Phenol	ND	0.2	mg/Kg-dry	1	9/5/2012
Pyrene	0.23	0.039	mg/Kg-dry	1	9/5/2012
Pyridine	ND	0.79	mg/Kg-dry	1	9/5/2012
1,2,4-Trichlorobenzene	ND	0.2	mg/Kg-dry	1	9/5/2012
2,4,5-Trichlorophenol	ND	0.2	mg/Kg-dry	1	9/5/2012
2,4,6-Trichlorophenol	ND	0.2	mg/Kg-dry	1	9/5/2012

Volatile Organic Compounds by GC/MS	SW5035/8260B	Prep Date: 8/31/2012	Analyst: ART		
Acetone	ND	0.1	mg/Kg-dry	1	9/6/2012
Benzene	ND	0.0069	mg/Kg-dry	1	9/6/2012
Bromodichloromethane	ND	0.0069	mg/Kg-dry	1	9/6/2012
Bromoform	ND	0.0069	mg/Kg-dry	1	9/6/2012
Bromomethane	ND	0.014	mg/Kg-dry	1	9/6/2012
2-Butanone	ND	0.1	mg/Kg-dry	1	9/6/2012
Carbon disulfide	ND	0.069	mg/Kg-dry	1	9/6/2012
Carbon tetrachloride	ND	0.0069	mg/Kg-dry	1	9/6/2012
Chlorobenzene	ND	0.0069	mg/Kg-dry	1	9/6/2012
Chloroethane	ND	0.014	mg/Kg-dry	1	9/6/2012
Chloroform	ND	0.0069	mg/Kg-dry	1	9/6/2012
Chloromethane	ND	0.014	mg/Kg-dry	1	9/6/2012
Dibromochloromethane	ND	0.0069	mg/Kg-dry	1	9/6/2012
1,1-Dichloroethane	ND	0.0069	mg/Kg-dry	1	9/6/2012
1,2-Dichloroethane	ND	0.0069	mg/Kg-dry	1	9/6/2012
1,1-Dichloroethene	ND	0.0069	mg/Kg-dry	1	9/6/2012
cis-1,2-Dichloroethene	ND	0.0069	mg/Kg-dry	1	9/6/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012**Date Printed:** September 12, 2012

Client: Weston Solutions **Client Sample ID:** SI-SB06(3-5)-082912
Lab Order: 12080997 **Collection Date:** 8/29/2012 8:10:00 AM
Project: Springfield Iron, Springfield, IL **Matrix:** Soil
Lab ID: 12080997-010

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS						
trans-1,2-Dichloroethene	ND	0.0069		mg/Kg-dry	1	9/6/2012
1,2-Dichloropropane	ND	0.0069		mg/Kg-dry	1	9/6/2012
cis-1,3-Dichloropropene	ND	0.0028		mg/Kg-dry	1	9/6/2012
trans-1,3-Dichloropropene	ND	0.0028		mg/Kg-dry	1	9/6/2012
Ethylbenzene	ND	0.0069		mg/Kg-dry	1	9/6/2012
2-Hexanone	ND	0.028		mg/Kg-dry	1	9/6/2012
4-Methyl-2-pentanone	ND	0.028		mg/Kg-dry	1	9/6/2012
Methylene chloride	ND	0.014		mg/Kg-dry	1	9/6/2012
Methyl tert-butyl ether	ND	0.0069		mg/Kg-dry	1	9/6/2012
Styrene	ND	0.0069		mg/Kg-dry	1	9/6/2012
1,1,2,2-Tetrachloroethane	ND	0.0069		mg/Kg-dry	1	9/6/2012
Tetrachloroethene	ND	0.0069		mg/Kg-dry	1	9/6/2012
Toluene	ND	0.0069		mg/Kg-dry	1	9/6/2012
1,1,1-Trichloroethane	ND	0.0069		mg/Kg-dry	1	9/6/2012
1,1,2-Trichloroethane	ND	0.0069		mg/Kg-dry	1	9/6/2012
Trichloroethene	ND	0.0069		mg/Kg-dry	1	9/6/2012
Vinyl chloride	ND	0.0069		mg/Kg-dry	1	9/6/2012
Xylenes, Total	ND	0.021		mg/Kg-dry	1	9/6/2012
Cyanide, Total						
Cyanide	ND	0.3		mg/Kg-dry	1	9/1/2012
pH (25 °C)						
pH	7.0			pH Units	1	8/30/2012
Percent Moisture						
Percent Moisture	16.2	0.2	*	wt%	1	Analyst: PBG 9/4/2012
						Prep Date: 9/1/2012
						Analyst: YZ 9/1/2012
						Prep Date: 8/30/2012
						Analyst: MNG 8/30/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

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HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012

Date Printed: September 12, 2012

Client:	Weston Solutions	Client Sample ID:	SI-SB08(4-6)-082912
Lab Order:	12080997	Collection Date:	8/29/2012 8:45:00 AM
Project:	Springfield Iron, Springfield, IL	Matrix:	Soil
Lab ID:	12080997-011		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					
Mercury	ND	0.021		mg/Kg-dry	1	9/6/2012
Metals by ICP/MS	SW6020 (SW3050B)					
Aluminum	11000	230		mg/Kg-dry	100	9/4/2012
Antimony	ND	2.3		mg/Kg-dry	10	9/4/2012
Arsenic	13	1.1		mg/Kg-dry	10	9/4/2012
Barium	120	1.1		mg/Kg-dry	10	9/4/2012
Beryllium	ND	0.57		mg/Kg-dry	10	9/5/2012
Cadmium	ND	0.57		mg/Kg-dry	10	9/4/2012
Calcium	78000	690		mg/Kg-dry	100	9/4/2012
Chromium	16	1.1		mg/Kg-dry	10	9/4/2012
Cobalt	8.2	1.1		mg/Kg-dry	10	9/4/2012
Copper	13	2.9		mg/Kg-dry	10	9/4/2012
Iron	27000	340		mg/Kg-dry	100	9/4/2012
Lead	14	5.7		mg/Kg-dry	100	9/4/2012
Magnesium	41000	34		mg/Kg-dry	10	9/4/2012
Manganese	820	1.1		mg/Kg-dry	10	9/4/2012
Nickel	20	1.1		mg/Kg-dry	10	9/4/2012
Potassium	780	34		mg/Kg-dry	10	9/4/2012
Selenium	ND	1.1		mg/Kg-dry	10	9/4/2012
Silver	ND	1.1		mg/Kg-dry	10	9/4/2012
Sodium	110	69		mg/Kg-dry	10	9/4/2012
Thallium	ND	11		mg/Kg-dry	100	9/4/2012
Vanadium	25	1.1		mg/Kg-dry	10	9/4/2012
Zinc	37	5.7		mg/Kg-dry	10	9/4/2012
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)					
Acenaphthene	0.073	0.04		mg/Kg-dry	1	9/5/2012
Acenaphthylene	0.53	0.04		mg/Kg-dry	1	9/5/2012
Aniline	ND	0.4		mg/Kg-dry	1	9/5/2012
Anthracene	0.35	0.04		mg/Kg-dry	1	9/5/2012
Benz(a)anthracene	0.31	0.04		mg/Kg-dry	1	9/5/2012
Benzidine	ND	0.4		mg/Kg-dry	1	9/5/2012
Benzo(a)pyrene	0.21	0.04		mg/Kg-dry	1	9/5/2012
Benzo(b)fluoranthene	0.16	0.04		mg/Kg-dry	1	9/5/2012
Benzo(g,h,i)perylene	0.082	0.04		mg/Kg-dry	1	9/5/2012
Benzo(k)fluoranthene	0.18	0.04		mg/Kg-dry	1	9/5/2012
Benzoic acid	ND	1		mg/Kg-dry	1	9/5/2012
Benzyl alcohol	ND	0.21		mg/Kg-dry	1	9/5/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012

Date Printed: September 12, 2012

Client: Weston Solutions
Lab Order: 12080997
Project: Springfield Iron, Springfield, IL
Lab ID: 12080997-011

Client Sample ID: SI-SB08(4-6)-082912

Collection Date: 8/29/2012 8:45:00 AM

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS						
Bis(2-chloroethoxy)methane	ND	0.21		mg/Kg-dry	1	9/5/2012
Bis(2-chloroethyl)ether	ND	0.21		mg/Kg-dry	1	9/5/2012
Bis(2-ethylhexyl)phthalate	ND	1		mg/Kg-dry	1	9/5/2012
4-Bromophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	9/5/2012
Butyl benzyl phthalate	ND	0.21		mg/Kg-dry	1	9/5/2012
Carbazole	ND	0.21		mg/Kg-dry	1	9/5/2012
4-Chloroaniline	ND	0.21		mg/Kg-dry	1	9/5/2012
4-Chloro-3-methylphenol	ND	0.4		mg/Kg-dry	1	9/5/2012
2-Chloronaphthalene	ND	0.21		mg/Kg-dry	1	9/5/2012
2-Chlorophenol	ND	0.21		mg/Kg-dry	1	9/5/2012
4-Chlorophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	9/5/2012
Chrysene	0.29	0.04		mg/Kg-dry	1	9/5/2012
Dibenz(a,h)anthracene	ND	0.04		mg/Kg-dry	1	9/5/2012
Dibenzofuran	ND	0.21		mg/Kg-dry	1	9/5/2012
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	9/5/2012
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	9/5/2012
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	9/5/2012
3,3'-Dichlorobenzidine	ND	0.21		mg/Kg-dry	1	9/5/2012
2,4-Dichlorophenol	ND	0.21		mg/Kg-dry	1	9/5/2012
Diethyl phthalate	ND	0.21		mg/Kg-dry	1	9/5/2012
2,4-Dimethylphenol	ND	0.21		mg/Kg-dry	1	9/5/2012
Dimethyl phthalate	ND	0.21		mg/Kg-dry	1	9/5/2012
4,6-Dinitro-2-methylphenol	ND	0.4		mg/Kg-dry	1	9/5/2012
2,4-Dinitrophenol	ND	1		mg/Kg-dry	1	9/5/2012
2,4-Dinitrotoluene	ND	0.04		mg/Kg-dry	1	9/5/2012
2,6-Dinitrotoluene	ND	0.04		mg/Kg-dry	1	9/5/2012
Di-n-butyl phthalate	ND	0.21		mg/Kg-dry	1	9/5/2012
Di-n-octyl phthalate	ND	0.21		mg/Kg-dry	1	9/5/2012
Fluoranthene	0.72	0.04		mg/Kg-dry	1	9/5/2012
Fluorene	0.35	0.04		mg/Kg-dry	1	9/5/2012
Hexachlorobenzene	ND	0.21		mg/Kg-dry	1	9/5/2012
Hexachlorobutadiene	ND	0.21		mg/Kg-dry	1	9/5/2012
Hexachlorocyclopentadiene	ND	0.21		mg/Kg-dry	1	9/5/2012
Hexachloroethane	ND	0.21		mg/Kg-dry	1	9/5/2012
Indeno(1,2,3-cd)pyrene	0.086	0.04		mg/Kg-dry	1	9/5/2012
Isophorone	ND	0.21		mg/Kg-dry	1	9/5/2012
2-Methylnaphthalene	0.28	0.21		mg/Kg-dry	1	9/5/2012
2-Methylphenol	ND	0.21		mg/Kg-dry	1	9/5/2012

ND - Not Detected at the Reporting Limit

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012

Date Printed: September 12, 2012

Client:	Weston Solutions	Client Sample ID:	SI-SB08(4-6)-082912
Lab Order:	12080997	Collection Date:	8/29/2012 8:45:00 AM
Project:	Springfield Iron, Springfield, IL	Matrix:	Soil
Lab ID:	12080997-011		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 9/5/2012	Analyst: DM	
4-Methylphenol	ND	0.21	mg/Kg-dry	1	9/5/2012
Naphthalene	0.25	0.04	mg/Kg-dry	1	9/5/2012
2-Nitroaniline	ND	0.21	mg/Kg-dry	1	9/5/2012
3-Nitroaniline	ND	0.21	mg/Kg-dry	1	9/5/2012
4-Nitroaniline	ND	0.21	mg/Kg-dry	1	9/5/2012
2-Nitrophenol	ND	0.21	mg/Kg-dry	1	9/5/2012
4-Nitrophenol	ND	0.4	mg/Kg-dry	1	9/5/2012
Nitrobenzene	ND	0.04	mg/Kg-dry	1	9/5/2012
N-Nitrosodi-n-propylamine	ND	0.04	mg/Kg-dry	1	9/5/2012
N-Nitrosodimethylamine	ND	0.21	mg/Kg-dry	1	9/5/2012
N-Nitrosodiphenylamine	ND	0.04	mg/Kg-dry	1	9/5/2012
2, 2'-oxybis(1-Chloropropane)	ND	0.21	mg/Kg-dry	1	9/5/2012
Pentachlorophenol	ND	0.04	mg/Kg-dry	1	9/5/2012
Phenanthrene	1.2	0.04	mg/Kg-dry	1	9/5/2012
Phenol	ND	0.21	mg/Kg-dry	1	9/5/2012
Pyrene	0.6	0.04	mg/Kg-dry	1	9/5/2012
Pyridine	ND	0.81	mg/Kg-dry	1	9/5/2012
1,2,4-Trichlorobenzene	ND	0.21	mg/Kg-dry	1	9/5/2012
2,4,5-Trichlorophenol	ND	0.21	mg/Kg-dry	1	9/5/2012
2,4,6-Trichlorophenol	ND	0.21	mg/Kg-dry	1	9/5/2012

Volatile Organic Compounds by GC/MS	SW5035/8260B	Prep Date: 8/31/2012	Analyst: PS		
Acetone	ND	0.08	mg/Kg-dry	1	9/6/2012
Benzene	ND	0.0053	mg/Kg-dry	1	9/6/2012
Bromodichloromethane	ND	0.0053	mg/Kg-dry	1	9/6/2012
Bromoform	ND	0.0053	mg/Kg-dry	1	9/6/2012
Bromomethane	ND	0.011	mg/Kg-dry	1	9/6/2012
2-Butanone	ND	0.08	mg/Kg-dry	1	9/6/2012
Carbon disulfide	ND	0.053	mg/Kg-dry	1	9/6/2012
Carbon tetrachloride	ND	0.0053	mg/Kg-dry	1	9/6/2012
Chlorobenzene	ND	0.0053	mg/Kg-dry	1	9/6/2012
Chlorethane	ND	0.011	mg/Kg-dry	1	9/6/2012
Chloroform	ND	0.0053	mg/Kg-dry	1	9/6/2012
Chloromethane	ND	0.011	mg/Kg-dry	1	9/6/2012
Dibromochloromethane	ND	0.0053	mg/Kg-dry	1	9/6/2012
1,1-Dichloroethane	ND	0.0053	mg/Kg-dry	1	9/6/2012
1,2-Dichloroethane	ND	0.0053	mg/Kg-dry	1	9/6/2012
1,1-Dichloroethene	ND	0.0053	mg/Kg-dry	1	9/6/2012
cis-1,2-Dichloroethene	ND	0.0053	mg/Kg-dry	1	9/6/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012**Date Printed:** September 12, 2012

Client: Weston Solutions **Client Sample ID:** SI-SB08(4-6)-082912
Lab Order: 12080997 **Collection Date:** 8/29/2012 8:45:00 AM
Project: Springfield Iron, Springfield, IL **Matrix:** Soil
Lab ID: 12080997-011

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS						
trans-1,2-Dichloroethene	ND	0.0053		mg/Kg-dry	1	9/6/2012
1,2-Dichloropropane	ND	0.0053		mg/Kg-dry	1	9/6/2012
cis-1,3-Dichloropropene	ND	0.0021		mg/Kg-dry	1	9/6/2012
trans-1,3-Dichloropropene	ND	0.0021		mg/Kg-dry	1	9/6/2012
Ethylbenzene	ND	0.0053		mg/Kg-dry	1	9/6/2012
2-Hexanone	ND	0.021		mg/Kg-dry	1	9/6/2012
4-Methyl-2-pentanone	ND	0.021		mg/Kg-dry	1	9/6/2012
Methylene chloride	ND	0.011		mg/Kg-dry	1	9/6/2012
Methyl tert-butyl ether	ND	0.0053		mg/Kg-dry	1	9/6/2012
Styrene	ND	0.0053		mg/Kg-dry	1	9/6/2012
1,1,2,2-Tetrachloroethane	ND	0.0053		mg/Kg-dry	1	9/6/2012
Tetrachloroethene	ND	0.0053		mg/Kg-dry	1	9/6/2012
Toluene	ND	0.0053		mg/Kg-dry	1	9/6/2012
1,1,1-Trichloroethane	ND	0.0053		mg/Kg-dry	1	9/6/2012
1,1,2-Trichloroethane	ND	0.0053		mg/Kg-dry	1	9/6/2012
Trichloroethene	ND	0.0053		mg/Kg-dry	1	9/6/2012
Vinyl chloride	ND	0.0053		mg/Kg-dry	1	9/6/2012
Xylenes, Total	ND	0.016		mg/Kg-dry	1	9/6/2012
Cyanide, Total						
Cyanide	ND	0.3		mg/Kg-dry	1	9/1/2012
pH (25 °C)						
pH	7.3			pH Units	1	8/30/2012
Percent Moisture						
Percent Moisture	17.4	0.2	*	wt%	1	Analyst: PBG 9/4/2012
				Prep Date: 9/1/2012		
					Prep Date: 8/30/2012	
						Analyst: MNG

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012

Date Printed: September 12, 2012

Client:	Weston Solutions	Client Sample ID:	SI-SB07(2-4)-082912
Lab Order:	12080997	Collection Date:	8/29/2012 9:35:00 AM
Project:	Springfield Iron, Springfield, IL	Matrix:	Soil
Lab ID:	12080997-012		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury			SW7471A			
Mercury	0.12	0.022		mg/Kg-dry	1	9/6/2012
Metals by ICP/MS			SW6020 (SW3050B)			
Aluminum	6200	220		mg/Kg-dry	100	9/4/2012
Antimony	3.1	2.2		mg/Kg-dry	10	9/4/2012
Arsenic	25	1.1		mg/Kg-dry	10	9/4/2012
Barium	87	1.1		mg/Kg-dry	10	9/4/2012
Beryllium	0.84	0.55		mg/Kg-dry	10	9/5/2012
Cadmium	1.9	0.55		mg/Kg-dry	10	9/4/2012
Calcium	2200	660		mg/Kg-dry	100	9/4/2012
Chromium	19	1.1		mg/Kg-dry	10	9/4/2012
Cobalt	10	1.1		mg/Kg-dry	10	9/4/2012
Copper	53	2.7		mg/Kg-dry	10	9/4/2012
Iron	78000	3300		mg/Kg-dry	1000	9/7/2012
Lead	740	5.5		mg/Kg-dry	100	9/4/2012
Magnesium	920	33		mg/Kg-dry	10	9/4/2012
Manganese	450	1.1		mg/Kg-dry	10	9/4/2012
Nickel	19	1.1		mg/Kg-dry	10	9/4/2012
Potassium	680	33		mg/Kg-dry	10	9/4/2012
Selenium	1.7	1.1		mg/Kg-dry	10	9/4/2012
Silver	ND	1.1		mg/Kg-dry	10	9/4/2012
Sodium	150	66		mg/Kg-dry	10	9/4/2012
Thallium	ND	11		mg/Kg-dry	100	9/4/2012
Vanadium	44	1.1		mg/Kg-dry	10	9/4/2012
Zinc	150	5.5		mg/Kg-dry	10	9/4/2012
Semivolatile Organic Compounds by GC/MS			SW8270C (SW3550B)			
Acenaphthene	42	3.7		mg/Kg-dry	10	9/6/2012
Acenaphthylene	140	3.7		mg/Kg-dry	10	9/6/2012
Aniline	ND	3.7		mg/Kg-dry	1	9/5/2012
Anthracene	200	3.7		mg/Kg-dry	10	9/6/2012
Benz(a)anthracene	110	3.7		mg/Kg-dry	10	9/6/2012
Benzidine	ND	3.7		mg/Kg-dry	1	9/5/2012
Benzo(a)pyrene	67	3.7		mg/Kg-dry	10	9/6/2012
Benzo(b)fluoranthene	42	3.7		mg/Kg-dry	10	9/6/2012
Benzo(g,h,i)perylene	21	0.37		mg/Kg-dry	1	9/5/2012
Benzo(k)fluoranthene	60	3.7		mg/Kg-dry	10	9/6/2012
Benzoic acid	ND	9.2		mg/Kg-dry	1	9/5/2012
Benzyl alcohol	ND	1.9		mg/Kg-dry	1	9/5/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

STAT Analysis Corporation

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012

Date Printed: September 12, 2012

Client: Weston Solutions
Lab Order: 12080997
Project: Springfield Iron, Springfield, IL
Lab ID: 12080997-012

Client Sample ID: SI-SB07(2-4)-082912

Collection Date: 8/29/2012 9:35:00 AM

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS						
Bis(2-chloroethoxy)methane	ND	1.9		mg/Kg-dry	1	9/5/2012
Bis(2-chloroethyl)ether	ND	1.9		mg/Kg-dry	1	9/5/2012
Bis(2-ethylhexyl)phthalate	ND	9.2		mg/Kg-dry	1	9/5/2012
4-Bromophenyl phenyl ether	ND	1.9		mg/Kg-dry	1	9/5/2012
Butyl benzyl phthalate	ND	1.9		mg/Kg-dry	1	9/5/2012
Carbazole	50	19		mg/Kg-dry	10	9/6/2012
4-Chloroaniline	ND	1.9		mg/Kg-dry	1	9/5/2012
4-Chloro-3-methylphenol	ND	3.7		mg/Kg-dry	1	9/5/2012
2-Chloronaphthalene	ND	1.9		mg/Kg-dry	1	9/5/2012
2-Chlorophenol	ND	1.9		mg/Kg-dry	1	9/5/2012
4-Chlorophenyl phenyl ether	ND	1.9		mg/Kg-dry	1	9/5/2012
Chrysene	100	3.7		mg/Kg-dry	10	9/6/2012
Dibenz(a,h)anthracene	17	0.37		mg/Kg-dry	1	9/5/2012
Dibenzofuran	110	19		mg/Kg-dry	10	9/6/2012
1,2-Dichlorobenzene	ND	1.9		mg/Kg-dry	1	9/5/2012
1,3-Dichlorobenzene	ND	1.9		mg/Kg-dry	1	9/5/2012
1,4-Dichlorobenzene	ND	1.9		mg/Kg-dry	1	9/5/2012
3,3'-Dichlorobenzidine	ND	1.9		mg/Kg-dry	1	9/5/2012
2,4-Dichlorophenol	ND	1.9		mg/Kg-dry	1	9/5/2012
Diethyl phthalate	ND	1.9		mg/Kg-dry	1	9/5/2012
2,4-Dimethylphenol	250	19		mg/Kg-dry	10	9/6/2012
Dimethyl phthalate	ND	1.9		mg/Kg-dry	1	9/5/2012
4,6-Dinitro-2-methylphenol	ND	3.7		mg/Kg-dry	1	9/5/2012
2,4-Dinitrophenol	ND	9.2		mg/Kg-dry	1	9/5/2012
2,4-Dinitrotoluene	ND	0.37		mg/Kg-dry	1	9/5/2012
2,6-Dinitrotoluene	ND	0.37		mg/Kg-dry	1	9/5/2012
Di-n-butyl phthalate	ND	1.9		mg/Kg-dry	1	9/5/2012
Di-n-octyl phthalate	ND	1.9		mg/Kg-dry	1	9/5/2012
Fluoranthene	250	3.7		mg/Kg-dry	10	9/6/2012
Fluorene	160	3.7		mg/Kg-dry	10	9/6/2012
Hexachlorobenzene	ND	1.9		mg/Kg-dry	1	9/5/2012
Hexachlorobutadiene	ND	1.9		mg/Kg-dry	1	9/5/2012
Hexachlorocyclopentadiene	ND	1.9		mg/Kg-dry	1	9/5/2012
Hexachloroethane	ND	1.9		mg/Kg-dry	1	9/5/2012
Indeno(1,2,3-cd)pyrene	24	0.37		mg/Kg-dry	1	9/5/2012
Isophorone	ND	1.9		mg/Kg-dry	1	9/5/2012
2-Methylnaphthalene	200	19		mg/Kg-dry	10	9/6/2012
2-Methylphenol	130	19		mg/Kg-dry	10	9/6/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012

Date Printed: September 12, 2012

Client:	Weston Solutions	Client Sample ID:	SI-SB07(2-4)-082912
Lab Order:	12080997	Collection Date:	8/29/2012 9:35:00 AM
Project:	Springfield Iron, Springfield, IL	Matrix:	Soil
Lab ID:	12080997-012		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 9/5/2012	Analyst: DM	
4-Methylphenol	600	38	mg/Kg-dry	20	9/6/2012
Naphthalene	300	3.7	mg/Kg-dry	10	9/6/2012
2-Nitroaniline	ND	1.9	mg/Kg-dry	1	9/5/2012
3-Nitroaniline	ND	1.9	mg/Kg-dry	1	9/5/2012
4-Nitroaniline	ND	1.9	mg/Kg-dry	1	9/5/2012
2-Nitrophenol	ND	1.9	mg/Kg-dry	1	9/5/2012
4-Nitrophenol	ND	3.7	mg/Kg-dry	1	9/5/2012
Nitrobenzene	ND	0.37	mg/Kg-dry	1	9/5/2012
N-Nitrosodi-n-propylamine	ND	0.37	mg/Kg-dry	1	9/5/2012
N-Nitrosodimethylamine	ND	1.9	mg/Kg-dry	1	9/5/2012
N-Nitrosodiphenylamine	ND	0.37	mg/Kg-dry	1	9/5/2012
2, 2'-oxybis(1-Chloropropane)	ND	1.9	mg/Kg-dry	1	9/5/2012
Pentachlorophenol	ND	0.37	mg/Kg-dry	1	9/5/2012
Phenanthrene	510	7.3	mg/Kg-dry	20	9/6/2012
Phenol	210	19	mg/Kg-dry	10	9/6/2012
Pyrene	210	3.7	mg/Kg-dry	10	9/6/2012
Pyridine	ND	7.4	mg/Kg-dry	1	9/5/2012
1,2,4-Trichlorobenzene	ND	1.9	mg/Kg-dry	1	9/5/2012
2,4,5-Trichlorophenol	ND	1.9	mg/Kg-dry	1	9/5/2012
2,4,6-Trichlorophenol	ND	1.9	mg/Kg-dry	1	9/5/2012

Volatile Organic Compounds by GC/MS	SW5035/8260B		Prep Date: 8/31/2012	Analyst: PS	
Acetone	ND	0.12	mg/Kg-dry	1	9/6/2012
Benzene	ND	0.0079	mg/Kg-dry	1	9/6/2012
Bromodichloromethane	ND	0.0079	mg/Kg-dry	1	9/6/2012
Bromoform	ND	0.0079	mg/Kg-dry	1	9/6/2012
Bromomethane	ND	0.016	mg/Kg-dry	1	9/6/2012
2-Butanone	ND	0.12	mg/Kg-dry	1	9/6/2012
Carbon disulfide	ND	0.079	mg/Kg-dry	1	9/6/2012
Carbon tetrachloride	ND	0.0079	mg/Kg-dry	1	9/6/2012
Chlorobenzene	ND	0.0079	mg/Kg-dry	1	9/6/2012
Chlorethane	ND	0.016	mg/Kg-dry	1	9/6/2012
Chloroform	ND	0.0079	mg/Kg-dry	1	9/6/2012
Chloromethane	ND	0.016	mg/Kg-dry	1	9/6/2012
Dibromochloromethane	ND	0.0079	mg/Kg-dry	1	9/6/2012
1,1-Dichloroethane	ND	0.0079	mg/Kg-dry	1	9/6/2012
1,2-Dichloroethane	ND	0.0079	mg/Kg-dry	1	9/6/2012
1,1-Dichloroethene	ND	0.0079	mg/Kg-dry	1	9/6/2012
cis-1,2-Dichloroethene	ND	0.0079	mg/Kg-dry	1	9/6/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

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R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012**Date Printed:** September 12, 2012

Client: Weston Solutions **Client Sample ID:** SI-SB07(2-4)-082912
Lab Order: 12080997 **Collection Date:** 8/29/2012 9:35:00 AM
Project: Springfield Iron, Springfield, IL **Matrix:** Soil
Lab ID: 12080997-012

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS						
trans-1,2-Dichloroethene	ND	0.0079		mg/Kg-dry	1	9/6/2012
1,2-Dichloropropane	ND	0.0079		mg/Kg-dry	1	9/6/2012
cis-1,3-Dichloropropene	ND	0.0032		mg/Kg-dry	1	9/6/2012
trans-1,3-Dichloropropene	ND	0.0032		mg/Kg-dry	1	9/6/2012
Ethylbenzene	ND	0.0079		mg/Kg-dry	1	9/6/2012
2-Hexanone	ND	0.032		mg/Kg-dry	1	9/6/2012
4-Methyl-2-pentanone	ND	0.032		mg/Kg-dry	1	9/6/2012
Methylene chloride	ND	0.016		mg/Kg-dry	1	9/6/2012
Methyl tert-butyl ether	ND	0.0079		mg/Kg-dry	1	9/6/2012
Styrene	ND	0.0079		mg/Kg-dry	1	9/6/2012
1,1,2,2-Tetrachloroethane	ND	0.0079		mg/Kg-dry	1	9/6/2012
Tetrachloroethene	ND	0.0079		mg/Kg-dry	1	9/6/2012
Toluene	ND	0.0079		mg/Kg-dry	1	9/6/2012
1,1,1-Trichloroethane	ND	0.0079		mg/Kg-dry	1	9/6/2012
1,1,2-Trichloroethane	ND	0.0079		mg/Kg-dry	1	9/6/2012
Trichloroethene	ND	0.0079		mg/Kg-dry	1	9/6/2012
Vinyl chloride	ND	0.0079		mg/Kg-dry	1	9/6/2012
Xylenes, Total	ND	0.024		mg/Kg-dry	1	9/6/2012
Cyanide, Total						
Cyanide	ND	0.28		mg/Kg-dry	1	9/1/2012
pH (25 °C)						
pH	4.3			pH Units	1	8/30/2012
Percent Moisture						
Percent Moisture	9.9	0.2	*	wt%	1	Analyst: PBG 9/4/2012

ND - Not Detected at the Reporting Limit

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Qualifiers: J - Analyte detected below quantitation limits

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HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012

Date Printed: September 12, 2012

Client:	Weston Solutions	Client Sample ID:	SI-TAR02-082912
Lab Order:	12080997	Collection Date:	8/29/2012 10:30:00 AM
Project:	Springfield Iron, Springfield, IL	Matrix:	Solid
Lab ID:	12080997-013		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A					
Mercury	ND	0.017		mg/Kg-dry	1	9/6/2012
Metals by ICP/MS	SW6020 (SW3050B)					
Aluminum	240	230		mg/Kg-dry	100	9/4/2012
Antimony	ND	2.3		mg/Kg-dry	10	9/4/2012
Arsenic	13	1.1		mg/Kg-dry	10	9/4/2012
Barium	4.6	1.1		mg/Kg-dry	10	9/4/2012
Beryllium	ND	0.57		mg/Kg-dry	10	9/4/2012
Cadmium	3.8	0.57		mg/Kg-dry	10	9/4/2012
Calcium	1300	68		mg/Kg-dry	10	9/4/2012
Chromium	ND	1.1		mg/Kg-dry	10	9/4/2012
Cobalt	ND	1.1		mg/Kg-dry	10	9/4/2012
Copper	ND	2.8		mg/Kg-dry	10	9/4/2012
Iron	1800	340		mg/Kg-dry	100	9/4/2012
Lead	17	0.57		mg/Kg-dry	10	9/4/2012
Magnesium	250	34		mg/Kg-dry	10	9/4/2012
Manganese	22	1.1		mg/Kg-dry	10	9/4/2012
Nickel	ND	1.1		mg/Kg-dry	10	9/4/2012
Potassium	130	34		mg/Kg-dry	10	9/4/2012
Selenium	6.3	1.1		mg/Kg-dry	10	9/4/2012
Silver	ND	1.1		mg/Kg-dry	10	9/4/2012
Sodium	140	68		mg/Kg-dry	10	9/4/2012
Thallium	4.9	1.1		mg/Kg-dry	10	9/4/2012
Vanadium	1.6	1.1		mg/Kg-dry	10	9/4/2012
Zinc	250	5.7		mg/Kg-dry	10	9/4/2012
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)					
Acenaphthene	180	3.2		mg/Kg-dry	1	9/7/2012
Acenaphthylene	610	16		mg/Kg-dry	5	9/7/2012
Aniline	ND	33		mg/Kg-dry	1	9/7/2012
Anthracene	710	16		mg/Kg-dry	5	9/7/2012
Benz(a)anthracene	470	16		mg/Kg-dry	5	9/7/2012
Benzidine	ND	32		mg/Kg-dry	1	9/7/2012
Benzo(a)pyrene	280	3.2		mg/Kg-dry	1	9/7/2012
Benzo(b)fluoranthene	220	3.2		mg/Kg-dry	1	9/7/2012
Benzo(g,h,i)perylene	91	3.2		mg/Kg-dry	1	9/7/2012
Benzo(k)fluoranthene	210	3.2		mg/Kg-dry	1	9/7/2012
Benzoic acid	ND	82		mg/Kg-dry	1	9/7/2012
Benzyl alcohol	ND	17		mg/Kg-dry	1	9/7/2012

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012**Date Printed:** September 12, 2012

Client: Weston Solutions
Lab Order: 12080997
Project: Springfield Iron, Springfield, IL
Lab ID: 12080997-013

Client Sample ID: SI-TAR02-082912**Collection Date:** 8/29/2012 10:30:00 AM**Matrix:** Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS						
Bis(2-chloroethoxy)methane	ND	17		mg/Kg-dry	1	9/7/2012
Bis(2-chloroethyl)ether	ND	17		mg/Kg-dry	1	9/7/2012
Bis(2-ethylhexyl)phthalate	ND	82		mg/Kg-dry	1	9/7/2012
4-Bromophenyl phenyl ether	ND	17		mg/Kg-dry	1	9/7/2012
Butyl benzyl phthalate	ND	17		mg/Kg-dry	1	9/7/2012
Carbazole	210	17		mg/Kg-dry	1	9/7/2012
4-Chloroaniline	ND	17		mg/Kg-dry	1	9/7/2012
4-Chloro-3-methylphenol	ND	32		mg/Kg-dry	1	9/7/2012
2-Chloronaphthalene	ND	17		mg/Kg-dry	1	9/7/2012
2-Chlorophenol	ND	17		mg/Kg-dry	1	9/7/2012
4-Chlorophenyl phenyl ether	ND	17		mg/Kg-dry	1	9/7/2012
Chrysene	430	16		mg/Kg-dry	5	9/7/2012
Dibenz(a,h)anthracene	70	3.2		mg/Kg-dry	1	9/7/2012
Dibenzofuran	450	84		mg/Kg-dry	5	9/7/2012
1,2-Dichlorobenzene	ND	17		mg/Kg-dry	1	9/7/2012
1,3-Dichlorobenzene	ND	17		mg/Kg-dry	1	9/7/2012
1,4-Dichlorobenzene	ND	17		mg/Kg-dry	1	9/7/2012
3,3'-Dichlorobenzidine	ND	17		mg/Kg-dry	1	9/7/2012
2,4-Dichlorophenol	ND	17		mg/Kg-dry	1	9/7/2012
Diethyl phthalate	ND	17		mg/Kg-dry	1	9/7/2012
2,4-Dimethylphenol	800	84		mg/Kg-dry	5	9/7/2012
Dimethyl phthalate	ND	17		mg/Kg-dry	1	9/7/2012
4,6-Dinitro-2-methylphenol	ND	32		mg/Kg-dry	1	9/7/2012
2,4-Dinitrophenol	ND	82		mg/Kg-dry	1	9/7/2012
2,4-Dinitrotoluene	ND	3.2		mg/Kg-dry	1	9/7/2012
2,6-Dinitrotoluene	ND	3.2		mg/Kg-dry	1	9/7/2012
Di-n-butyl phthalate	ND	17		mg/Kg-dry	1	9/7/2012
Di-n-octyl phthalate	ND	17		mg/Kg-dry	1	9/7/2012
Fluoranthene	960	16		mg/Kg-dry	5	9/7/2012
Fluorene	670	16		mg/Kg-dry	5	9/7/2012
Hexachlorobenzene	ND	17		mg/Kg-dry	1	9/7/2012
Hexachlorobutadiene	ND	17		mg/Kg-dry	1	9/7/2012
Hexachlorocyclopentadiene	ND	17		mg/Kg-dry	1	9/7/2012
Hexachloroethane	ND	17		mg/Kg-dry	1	9/7/2012
Indeno(1,2,3-cd)pyrene	110	3.2		mg/Kg-dry	1	9/7/2012
Isophorone	ND	17		mg/Kg-dry	1	9/7/2012
2-Methylnaphthalene	790	84		mg/Kg-dry	5	9/7/2012
2-Methylphenol	400	84		mg/Kg-dry	5	9/7/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

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Date Reported: September 12, 2012

Date Printed: September 12, 2012

Client: Weston Solutions
Lab Order: 12080997
Project: Springfield Iron, Springfield, IL
Lab ID: 12080997-013

Client Sample ID: SI-TAR02-082912

Collection Date: 8/29/2012 10:30:00 AM

Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS						
4-Methylphenol	1700	84		mg/Kg-dry	5	9/7/2012
Naphthalene	1100	16		mg/Kg-dry	5	9/7/2012
2-Nitroaniline	ND	17		mg/Kg-dry	1	9/7/2012
3-Nitroaniline	ND	17		mg/Kg-dry	1	9/7/2012
4-Nitroaniline	ND	17		mg/Kg-dry	1	9/7/2012
2-Nitrophenol	ND	17		mg/Kg-dry	1	9/7/2012
4-Nitrophenol	ND	32		mg/Kg-dry	1	9/7/2012
Nitrobenzene	ND	3.2		mg/Kg-dry	1	9/7/2012
N-Nitrosodi-n-propylamine	ND	3.2		mg/Kg-dry	1	9/7/2012
N-Nitrosodimethylamine	ND	17		mg/Kg-dry	1	9/7/2012
N-Nitrosodiphenylamine	ND	3.2		mg/Kg-dry	1	9/7/2012
2, 2'-oxybis(1-Chloropropane)	ND	17		mg/Kg-dry	1	9/7/2012
Pentachlorophenol	ND	3.2		mg/Kg-dry	1	9/7/2012
Phenanthrene	1900	16		mg/Kg-dry	5	9/7/2012
Phenol	590	84		mg/Kg-dry	5	9/7/2012
Pyrene	770	16		mg/Kg-dry	5	9/7/2012
Pyridine	ND	66		mg/Kg-dry	1	9/7/2012
1,2,4-Trichlorobenzene	ND	17		mg/Kg-dry	1	9/7/2012
2,4,5-Trichlorophenol	ND	17		mg/Kg-dry	1	9/7/2012
2,4,6-Trichlorophenol	ND	17		mg/Kg-dry	1	9/7/2012
Volatile Organic Compounds by GC/MS						
		SW8260B			Prep Date: 8/31/2012	Analyst: ART
Acetone	ND	34		mg/Kg-dry	200	9/6/2012
Benzene	33	2.3		mg/Kg-dry	200	9/6/2012
Bromodichloromethane	ND	2.3		mg/Kg-dry	200	9/6/2012
Bromoform	ND	2.3		mg/Kg-dry	200	9/6/2012
Bromomethane	ND	4.6		mg/Kg-dry	200	9/6/2012
2-Butanone	ND	34		mg/Kg-dry	200	9/6/2012
Carbon disulfide	ND	23		mg/Kg-dry	200	9/6/2012
Carbon tetrachloride	ND	2.3		mg/Kg-dry	200	9/6/2012
Chlorobenzene	ND	2.3		mg/Kg-dry	200	9/6/2012
Chloroethane	ND	4.6		mg/Kg-dry	200	9/6/2012
Chloroform	ND	2.3		mg/Kg-dry	200	9/6/2012
Chloromethane	ND	4.6		mg/Kg-dry	200	9/6/2012
Dibromochloromethane	ND	2.3		mg/Kg-dry	200	9/6/2012
1,1-Dichloroethane	ND	2.3		mg/Kg-dry	200	9/6/2012
1,2-Dichloroethane	ND	2.3		mg/Kg-dry	200	9/6/2012
1,1-Dichloroethene	ND	2.3		mg/Kg-dry	200	9/6/2012
cis-1,2-Dichloroethene	ND	2.3		mg/Kg-dry	200	9/6/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012

Date Printed: September 12, 2012

Client: Weston Solutions
Lab Order: 12080997
Project: Springfield Iron, Springfield, IL
Lab ID: 12080997-013

Client Sample ID: SI-TAR02-082912

Collection Date: 8/29/2012 10:30:00 AM

Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS						
	SW8260B				Prep Date: 8/31/2012	Analyst: ART
trans-1,2-Dichloroethene	ND	2.3		mg/Kg-dry	200	9/6/2012
1,2-Dichloropropane	ND	2.3		mg/Kg-dry	200	9/6/2012
cis-1,3-Dichloropropene	ND	0.91		mg/Kg-dry	200	9/6/2012
trans-1,3-Dichloropropene	ND	0.91		mg/Kg-dry	200	9/6/2012
Ethylbenzene	6.6	2.3		mg/Kg-dry	200	9/6/2012
2-Hexanone	ND	9.1		mg/Kg-dry	200	9/6/2012
4-Methyl-2-pentanone	ND	9.1		mg/Kg-dry	200	9/6/2012
Methylene chloride	ND	4.6		mg/Kg-dry	200	9/6/2012
Methyl tert-butyl ether	ND	2.3		mg/Kg-dry	200	9/6/2012
Styrene	ND	2.3		mg/Kg-dry	200	9/6/2012
1,1,2,2-Tetrachloroethane	ND	2.3		mg/Kg-dry	200	9/6/2012
Tetrachloroethene	ND	2.3		mg/Kg-dry	200	9/6/2012
Toluene	50	2.3		mg/Kg-dry	200	9/6/2012
1,1,1-Trichloroethane	ND	2.3		mg/Kg-dry	200	9/6/2012
1,1,2-Trichloroethane	ND	2.3		mg/Kg-dry	200	9/6/2012
Trichloroethene	ND	2.3		mg/Kg-dry	200	9/6/2012
Vinyl chloride	ND	2.3		mg/Kg-dry	200	9/6/2012
Xylenes, Total	71	6.8		mg/Kg-dry	200	9/6/2012
Cyanide, Total						
Cyanide		SW9012A		Prep Date: 9/3/2012	Analyst: YZ	
	ND	0.45		mg/Kg-dry	1	9/3/2012
pH (25 °C)						
pH		SW9045C		Prep Date: 8/30/2012	Analyst: MNG	
	7.3			pH Units	1	8/30/2012
Percent Moisture						
Percent Moisture		D2974		Prep Date: 9/1/2012	Analyst: PBG	
	2.8	0.2	*	wt%	1	9/4/2012

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

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S - Spike Recovery outside accepted recovery limits

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HT - Sample received past holding time

E - Value above quantitation range

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H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 12, 2012**Date Printed:** September 12, 2012

Client: Weston Solutions
Lab Order: 12080997
Project: Springfield Iron, Springfield, IL
Lab ID: 12080997-014

Client Sample ID: Trip Blank
Collection Date: 8/29/2012
Matrix: Water

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW8260B (SW5030B)			Prep Date:		Analyst: PS
Acetone	ND	0.02		mg/L	1	9/6/2012
Benzene	ND	0.005		mg/L	1	9/6/2012
Bromodichloromethane	ND	0.005		mg/L	1	9/6/2012
Bromoform	ND	0.005		mg/L	1	9/6/2012
Bromomethane	ND JJ	0.01		mg/L	1	9/6/2012
2-Butanone	ND	0.02		mg/L	1	9/6/2012
Carbon disulfide	ND	0.01		mg/L	1	9/6/2012
Carbon tetrachloride	ND	0.005		mg/L	1	9/6/2012
Chlorobenzene	ND	0.005		mg/L	1	9/6/2012
Chloroethane	ND	0.01		mg/L	1	9/6/2012
Chloroform	ND	0.005		mg/L	1	9/6/2012
Chloromethane	ND	0.01		mg/L	1	9/6/2012
Dibromochloromethane	ND	0.005		mg/L	1	9/6/2012
1,1-Dichloroethane	ND	0.005		mg/L	1	9/6/2012
1,2-Dichloroethane	ND	0.005		mg/L	1	9/6/2012
1,1-Dichloroethene	ND	0.005		mg/L	1	9/6/2012
cis-1,2-Dichloroethene	ND	0.005		mg/L	1	9/6/2012
trans-1,2-Dichloroethene	ND	0.005		mg/L	1	9/6/2012
1,2-Dichloropropane	ND	0.005		mg/L	1	9/6/2012
cis-1,3-Dichloropropene	ND	0.001		mg/L	1	9/6/2012
trans-1,3-Dichloropropene	ND	0.001		mg/L	1	9/6/2012
Ethylbenzene	ND	0.005		mg/L	1	9/6/2012
2-Hexanone	ND	0.02		mg/L	1	9/6/2012
4-Methyl-2-pentanone	ND	0.02		mg/L	1	9/6/2012
Methylene chloride	ND	0.005		mg/L	1	9/6/2012
Methyl tert-butyl ether	ND	0.005		mg/L	1	9/6/2012
Styrene	ND	0.005		mg/L	1	9/6/2012
1,1,2,2-Tetrachloroethane	ND	0.005		mg/L	1	9/6/2012
Tetrachloroethene	ND	0.005		mg/L	1	9/6/2012
Toluene	ND	0.005		mg/L	1	9/6/2012
1,1,1-Trichloroethane	ND	0.005		mg/L	1	9/6/2012
1,1,2-Trichloroethane	ND	0.005		mg/L	1	9/6/2012
Trichloroethene	ND	0.005		mg/L	1	9/6/2012
Vinyl chloride	ND	0.002		mg/L	1	9/6/2012
Xylenes, Total	ND	0.015		mg/L	1	9/6/2012

Qualifiers: ND - Not Detected at the Reporting Limit
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* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded